# AUTHOR INDEX


Abad, R. G. 8858
Abad, Z. G. 7710
Abak, K. 6108
Abamu, F. J. 4420
Abascal M., U. 4091
Abawi, G. S. 420
Abbaiah, K. 5281
Abbas, H. K. 1762, 4897, 6363, 7999, 8848
Abbasher, A. A. 8851
Abbasi, M. 6550
Abbott, J. D. 445
Abbott, L. K. 97, 5718, 5738, 7305, 8142
Abdalla, O. 258, 6646
Abdalla, O. A. 1029
Abdel-Aleem, M. M. 2010
Abdel-Fattah, M. N. D. 6627-6629
Abdel-Hafez, A. I. I. 4892
Abdel-Moneim, A. A. 6004
Abdel Monem, A. A. 1989
Abdel Monem, A. M. 5137
Abdel-Rahman, T. M. A. 5333
Abdel-Sater, M. A. 4892
Abdul, S. D. 3532
Abdul Ghaffar 3131
Abdullaev, B. Ya. 6868
Abdullah, A. R. 6423
Abdullah, H. 5238
Abdulmohsin, A. 7004
Abdulsalam, K. S. 7004
Abe, H. 2751, 6262
Aben, W. J. M. 1828
Abgrall, J. F. 3123
Abha Mishra 5280
Abidin, M. A. Z 554
Abiev, S. A. 729
Abolgassani, N. 6189
Aboshosha, S. S. 2305
Abou, C. 3760
Abouel-Naga, S. A. 2652
AbouHaidar, M. G. 4260-4261
Abouzid, A. M. 5327
Abracheva, P. 4644
Abraham, S. P. 3331
Abrahamsen, S. 286
Abramson, D. 1402
Abruzzetti, G. 6857
Abt, J. J. 877
Abu-Ghorrah, M. 6410
Abu-Taleb, A. M. 2336
Achar, P. N. 4538-4539
Acharya, S. N. 1472
Achbani, E. H. 4707
Achimu, P. 6964
Achor, D. 2270
Açıkgöz, S. 499, 6984-6985
Aćimović, M. 3051
Ackerman, K. D. 3283
Ackerveken, A. F. J. M. van den 811
Ackerveken, G. F. J. M. van den 437, 4585, 5331
Acklin, W. 3621
Acta, G. M. 225
Acuña, R. S. 4735
Adachi, K. 2213
Adak, M. S. 2137
Ádám, A. L. 3720
Adam, G. 8203
Adam, N. M. 8671
Adams, A. N. 2418, 3202
Adams, E. B. 7237
Adams, G. C. 5414
Adams, M. B. 7942
Adams, M. J. 2028, 2621, 4357, 5902
Adams, P. 3779
Adams, P. B. 2875
Adamsen, F. J. 7030
Adaskaveg, J. E. 8625
Adavani, M. R. 2784
Adcock, G. J. 7317
Adebitan, S. A. 967
Aderkas, P. von 1752
Ades, P. K. 6306
Adetuyi, F. C. 8280, 8371
Adhi, E. M. 2416
Adhikari, M. K. 8175, 8778
Adholeya, A. 2505, 4976
Adikaram, N. K. B. 690, 1082, 7003
Adipala, E. 4391
Adiver, S. S. 7152
Adrian, M. 5057
Adu-Ampomah, Y. 549
Advani, M. R. 573
Aerts, F. 7651
Aeschlimann, J. P. 2421
Afanas'eva, I. M. 1502
Afonchenko, N. V. 2334
Afrique Agriculture 2458
Aftab, M. 2782
Agadzhanyan, È. A. 4095
Agafonov, N. V. 2940
Agamalian, A. 6090
Agamalian, H. 6169
Agamalian, H. S. 6069, 7231
Agarwal, A. K. 6546
Agarwal, D. K. 3402-3403
Agarwal, H. C. 4590
Agarwal, S. 2072
Agarwal, S. K. 2298
Agarwal, V. K. 5150
Agarwala, R. K. 3845
Agarwala, S. C. 3005
Agbobli, C. A. 6066
Ageez, A. A. 2652
Agerer, R. 2499, 4137, 4970-4971, 5714, 6478
Ageron, E. 3761
Aggarwal, A. 6836
Aggarwal, R. 2668, 4335, 5149, 5868
Agina, S. M. 6769
Agnihothrudu, V. 1652
Agnihotri, V. P. 1647, 6518
Ago, H. 157
Agosin, E. 2537
Agostini, J. P. 1604, 2265, 7796
Agranovsky, A. A. 3088, 3446, 5058
Agrawal, R. C. 8507
Agrawal, S. C. 2136, 2143, 3052
Agrawal, S. K. 3069
Agrawat, J. M. 7819
Agriculture Commission of the European Communities 6370
Aguaded, S. 5164
Agueguia, A. 4536
Aguilar, G. 7337
Aguirre-Rodríguez, J. 3617, 3619
Aguirre-Rodríguez, J. I. 1430, 1435, 1439
Agulhon, R. 2986
Agur, M. O. 1548, 2825
Agustijn-Beckers, P. W. M. 8056
Ahamedi, R. 5202
Aharoni, Y. 3808
Aharonson, N. 4078
Ahir, R. R. 7519
Ahl-Goy, P. 1357, 3932, 7418
Ahlawat, Y. S. 1354
Ahlquist, P. 210, 5094, 5104, 5175, 6586
Ahlstrand, G. G. 8330
Ahmad, A. 8053
Ahmad, I. 426, 2894
Ahmad, I. B. 2055
Ahmad, M. 2304, 3077, 3084, 4428, 8378
Ahmad, M. H. 8135, 8139
Ahmad, Q. 6796
Ahmad, S. 8494-8495
Ahmad, S. T. 7585, 8466
Ahmed, F. 6017
Ahmed, K. Z. 854
Ahmed, S. 377
Ahn, M. S. 2181
Ahoonmanesh, A. 6859
Ahrens, U. 213, 3458
Ahuja, S. C. 3399
Aigbokhan, E. 2775
Aist, J. R. 7321
Aitken, E. A. B. 4863
Ajab Singh 4809
Akanda, A. M. 6393
Akanuma, R. 5325
Akasaka, Y. 6766, 6837
Akatsuka, T. 5940
Akaza, K. 6411
Ake, S. 7108
Aked, J. 2132
Akehurst, A. A. 6199
Akem, C. N. 6769, 8689
Åkesson, I. 1351
Akhil Borborua 5780, 6045
Akhilesh Singh 3731
Akhmedzhanov, I. G. 6539
Akhundov, T. M. 3881
Akiew, E. 5458-5459, 5589
Akimenko, V. K. 6014
Akimitsu, K. 5906
Akita, S. 5423
Akpa, A. D. 1960, 7038
Akperlinov, M. A. 2332
Akueshi, C. O. 6769
Akutsu, K. 7250, 7685
Al-Daoud, R. 3697
Al-Mallah, N. M. 3290
Al-Masri, H. H. 5354
Al-Najjar, A. 4311
Al-Rays, M. A. 5354, 5356
Al-Shahwan, I. M. 1029
Alabi, O. 2147
Alabouvette, C. 120, 576, 5033, 7138
Alahakoon, P. W. 7802
Alaka Pande 3706, 7365
Alam, M. 1183
Alam, M. R. 6437
Alam, M. S. 8347
Alavi, A. 1562
Albaladejo, J. 1851, 5720, 6484
Albarrán, M. 8270
Albayrak, S. 7362
Alberdi, M. 4
Albersheim, P. 5258
Albert, G. 7252
Albert, L. 6566
Alberti, I. 5889
Albertini, L. 4054, 6684-6685
Albiach, M. R. 6395
Albiach, R. 3872
Albouy, J. 802, 3189
Albrechtsen, M. 950
Albrechtsen, S. E. 382
Albregts, E. E. 1063, 7770
Albuquerque, L. M. B. 1832
Alcock, J. 5659
Alcorn, J. L. 3404, 5047, 7987, 8025
Alcorn, S. M. 8
Alderlieste, M. F. J. 5488
Aldrich, J. H. 470
Aldwinckle, H. S. 2933
Alegbejo, M. D. 5342
Aleĭnikov, L. N. 692
Aleksandridi, D. S. 913
Alekseeva, T. 397
Alekseeva, T. P. 845
Aleksić, G. 6241
Alexander, D. 3100
Alexander, H. M. 1777, 4274
Alexander, I. J. 1847
Alexander, K. C. 1645, 3909
Alexander, R. T. 7614
Alexander, S. A. 4837, 8788
Alexandra, J. 3259
Alfaro, A. 5366, 7721, 7723, 8587, 8590
Alfen, N. K. van 5461, 6225
Alfenas, A. 5535
Alfenas, A. C. 2367, 3886, 6570, 7374, 7382, 7385
Alfieri, S. A., Jr. 1703, 7382
Alfonso, C. 4206
Ali, A. A. 2327
Ali, E. 5023, 6024
Ali, F. S. 6004
Ali, M. 3781
Ali, M. I. M. 1749
Ali, M. S. 3400, 5014, 7954, 8387
Ali, R. 2467
Ali, S. 3083
Ali, S. M. 4402, 6015
Ali, S. S. 6568, 8825
Ali, Z. 4431
Ali-Shtayeh, M. S. 7578
Aliabadi, A. A. 1470
Alimova, F. K. 427
Alioto, D. 6852
Alippi, A. M. 1038, 6111
Alippi, H. E. 6111
Alistar, C. 3460
Alivizatos, A. S. 4572
Allaf, I. 8293
Allan, E. J. 947
Allan, R. H. 5131
Allard, C. 6794
Allard, L. M. 8677
Allard, R. W. 870, 2044
Allbutt, J. 63
Allen, D. C. 7923
Allen, E. B. 1838, 4152, 4993, 5725, 7308
Allen, E. J. 8493
Allen, H. L. 1715
Allen, J. E. 7116
Allen, M. F. 1838, 5725, 6225
Allen, P. G. 4447
Allen, R. N. 6199
Allen, S. J. 3118, 7896
Allen, W. R. 4620
Allex, D. 3811
Allison, M. F. 534
Allman, R. 1874
Allsopp, N. 4167
Alluri, K. 4420
Almacellas i Gort, J. 4327
Almeida, I. M. G. 7158
Almeida, L. C. C. de 3929
Almeida, O. C. de 3929, 6907
Alness, K. 3258
Aloi, C. 6150
Aloj, B. 2228, 4631
Alok Adholeya 2505
Alonso, E. 5684, 7698
Alonso, R. M. 5012, 7934, 7936
Alscher, R. G. 3973
Alston, A. M. 1856
Alt, M. 4772
Alta, C. 2525
Altamura, M. M. 3108
Altan, Y. 1306
Alten, H. von 5727-5728
Altmayer, B. 3853
Altomare, C. 101
Altosaar, I. 7327
Alva, A. K. 8655
Alvarado, S. 3794
Alvarez, A. M. 2752
Alvarez, I. F. 3349, 7294
Álvarez, J. 4565, 5365, 8592
Álvarez, J. M. 8591
Álvarez Encinosa, S. 6008
Alvarez-Morales, A. 7071
Alvin, K. L. 7984
Aly, M. M. 8432
Amadioha, A. C. 8492
Amano, H. 7660

Amano, T. 5311
Amante-Bordeos, A. 7526
Amaral, R. E. M. 5222-5223
Amaro, A. A. 504
Amatya, P. 217
Ambrosano E. J. 7158
Ameen, H. H. 5723
Ameeta Banerjee 4280
Amein, T. A. M. 5855
Amelung, D. 1090
Amenduni, M. 4731, 6084
Amer, M. A. 6603, 7239
American Phytopathological Society 645, 1361, 2433, 6371, 6622, 8866-8867
Ames, R. N. 8135
Amez, B. 4682
Amezada, G., Jr. 4682
Amézquita, M. M. 5609
Amiet, R. 3332, 5706, 5709
Amijee, F. 947
Amin, K. S. 379, 5471, 8463
Amintaev, E. N. 2940
Amir, H. 4687, 5033
Amita Pande 6432
Amler, P. 8277
Amma, S. P. 492
Ammermann, E. 8096
Amo, F. del 4206
Amsellem, Z. 7994
Amtliche Pflanzenschutzbestimmungen 2485-2487, 3321, 4115
Amundsen, T. 2953
Amuthan, G. 1791
An, D. R. 862, 5184, 7395, 8272
An, S. L. 429
An, Z. Q. 3348, 7166, 8146
Anagnostakis, S. L. 2290, 7810
Anahosur, K. H. 1445, 3623, 3967, 4390, 5931
Anand, D. 2657
Anand Singh 6799
Anandam, R. J. 4024
Anandaraj, M. 4013
Anandraj, M. 3043
Anan'eva, N. D. 3857
Anang, S. J. 1974
Ananthapadmanabha, H. S. 5539
Anas, A. N. 7228
Anas, O. 522, 938
Anaya, A. L. 6465
Anbu, D. A. 1302
Andersen, R. A. 6506
Anderson, A. 2450
Anderson, A. J. 6788
Anderson, J. B. 519
Anderson, J. D. 2540, 4771, 8732
Anderson, J. M. 1669
Anderson, P. A. 2536, 6281
Anderson, R. C. 1855, 3665
Anderson, R. L. 3153, 3963
Anderson, T. R. 360, 2104, 5507
Andersson, A. 1227, 7424
Andersson, B. 7645
Andersson, C. 2384
Andersson, R. 3379
Andnew, Y. 829, 8289
Ando, A. 2415
Ando, Y. 6837
Andow, D. A. 1775
Andreenko, T. I. 392
Andreev, L. N. 5178
Andrews, D. J. 4406
Andrianova, T. V. 5790
Andrivon, D. 865, 2037, 2693, 3501, 5896
Androsova, V. M. 3557
Aneja, K. R. 609, 8859
Anema, B. P. 8491
Anema, P. K. 5905
Angra-Sharma, R. 5195
Anikeev, V. G. 1453
Anil Gupta 2664, 2666
Anil Kumar 5774
Anila Doshi 4877
Anilkumar, T. B. 2150, 5024
Anima Dubey 7441
Anino, E. O. 5546
Anjaiah, V. 375
Anjali Roy 7358
Anjos, J. R. 2102
Ann, D. M. 8514
Ann, P. J. 7140
Annajutty Joseph 5524
Annali dell'Istituto Sperimentale per la Patologia Vegetale 5637
Annamalai, P. 4430
Annesi, T. 6362
Annicchiarico, P. 2637
Annis, S. L. 1625, 5463
Ano, T. 6461
Anoruo, A. O. 3164
Ansari, A. A. 3629-3630
Ansari, N. A. 1540
Anselmi, N. 584, 2380
Anthony, V. M. 8100
Antibus, R. K. 701, 7286
Antignus, Y. 3439, 5069, 5322
Anton, M. 7936
Antonelli, A. L. 1040
Antonenko, A. F. 1088
Antoniacci, L. 1359
Antoniazzi, S. 2590
Antonielli, M. 8125
Antoniolli, Z. I. 6497
Antoniw, J. F. 6086, 8140, 8230
Antoun, H. 2822, 6536
Antsiferova, L. V. 6659
Anupam Varma 7388
Anuradha, K. 7863
Anuratha, C. S. 6979
Anwar, S. A. 2807
Anzai, H. 6276
Anzola, J. V. 8223
Aono, N. 8639-8640
Aponte, A. 3721
Aponte P., A. 3080
Appel, D. N. 1699
Appels, R. 1994
Appleby, J. 3141
Applejohn, M. J. 3121
Arabi, M. I. 6684
Aracil, E. 2429
Aragaki, M. 527, 1740
Aragno, M. 6472
Arai, S. 3780
Araki, F. 7557
Araki, M. 951
Araki, Y. 6448
Arama, P. F. 6688, 8296, 8333
Arancibia, R. A. 2254
Aranzazu H., F. 3094
Arapova, N. N. 1713
Arase, S. 910
Araya, J. E. 2636, 2703
Arbeláez Torrez, G. 3183
Arboleda-Sepúlveda, O. 3, 651
Archer, S. A. 8250
Archetti, R. 2691
Archilletti, T. 3108
Arcila, M. J. 2817
Ardend, W. 7203
Arechavaleta, M. 343
Areddia, R. 5330
Arellano, F. 5645, 5655, 6408
Arencibia, N. 4774
Areola, O. 2601
Arévalo G., E. 3094
Arey, J. 8050
Arias, A. 7751
Aribaud, M. 6168
Arie, T. 6527, 8818
Arif, M. 8477
Arigoni, D. 3621
Arimoto, Y. 7548, 8596
Arin, N. 8845
Arines, J. 722, 4147, 5722, 7300
Arita, M. 7683, 8540
Arjunan, G. 7622
Arkan, O. 5712-5713
Arkhust, E. D. 3062
Arlorio, M. 3355
Armas, G. de 2898
Armstrong, J. L. 4185
Armstrong, J. W. 510
Armstrong, K. C. 4296
Armstrong, R. D. 1260
Arnason, J. T. 4393
Arnau, J. 8162
Arnaud-Santana, E. 7607, 8449
Arnebrant, K. 4125
Arnol'bik, V. M. 4845
Arnold, G. R. W. 3391, 5531, 7911
Arnold, M. 1787
Arnold, N. P. 8807
Arnold, W. 4935
Arnold, W. R. 8262
Arnoldi, A. 8252
Arnolds, E. 3217
Arora, C. L. 5450
Arora, J. K. 4150
Arora, P. 3043
Arora, P. C. 2664, 2666
Arora, S. K. 1429, 5282
Arrendale, R. F. 3318
Arroyave, J. A. 1141
Arroyo, R. 8573
Arsenijević, M. 2630, 2934, 3680, 4015, 4718, 7099
Arshad, M. 3115
Arteaga, G. J. 6872
Artemenko, E. N. 6648
Aruga, N. 5566
Arul, J. 738
Arulraj, S. 7850
Arumugam, R. 1076, 2188, 4571
Arun Kumar 1441
Arunachalam, A. S. 5530
Arvidsson, T. 8064
Arvind Kumar 7522-7523
Arvinder Rai 3596
Arya, S. R. 3971
Aryawan, G. N. 2732
Aryawan, I. G. N. 3636
Asada, Y. 2180, 7430
Asaiya, A. J. 8822
Asakawa, Y. 3767
Asao, H. 3780
Ascencio-Ibañez, J. T. 8575
Asch, M. A. J. van 547, 2065
Asfandiyarova, R. R. 2019
Asha Sinha 3079
Ashby, A. M. 5314, 6848
Ashby, J. W. 4886
Asher, M. 3918, 5489
Ashkan, M. 1578
Ashman, P. I. 7443, 8261
Ashrafuzzaman, M. 6663
Ashworth, J. 8071
Asia and Pacific Plant Protection Commission 1637
Asiedu, R. 8472
Asjes, C. J. 7966
Aslam, M. 2782, 5434, 6002
Aslouj, E. 2580
Assadi, P. 1408, 1748, 6651
Assche, C. van 6455, 7666
Asselin, A. 723, 738
Asshauer, J. 56
Astier-Manifacier, S. 802
Astika, I. G. N. 3636
Astika, N. S. 2732
Astolfi-Filho, S. 4065
Aston, J. P. 4089
Åström, B. 5885
Aswidinnoor, H. 7526
Atabekov, I. G. 1344, 3088, 5096
Atkinson, D. 1421, 6386
Atkinson, M. 4776
Atkinson, R. 8050
Atlin, G. 1477
Atreya, C. D. 159
Atreya, N. C. 2471
Atroshchenko, G. P. 474
Attias, M. 219
Aubert, B. 3871
Auburn, J. S. 7229
Audemard, H. 2937
Audergon, J. M. 2233, 2235, 3837, 7748
Audusseau, C. 3828
Auernhammer, H. 3270
Augé, R. M. 3351, 3353
Auger, J. G. 6188
Augspurger, C. K. 5254
Aujla, S. S. 2009, 2663, 4334, 8300, 8303
Aulakh, K. S. 3895, 4555, 5153-5154
Aulakh, R. K. 6879
Auld, B. A. 3211, 4029, 5799, 6358
Auld, D. L. 1360
Auling, G. 6
Ausher, R. 4287
Austria, Forstliche Bundesversuchsanstalt 1719, 6287
Autrey, L. J. C. 295
Avakyan, A. A. 20
Avakyan, A. B. 2826
Avazkhodzhaev, M. Kh. 6539
Avent, A. G. 3375, 7264-7265
Aver'yanov, A. A. 334, 3643, 4423, 4425
Avetisov, V. A. 5291
Avetisyan, T. V. 5178
Avezdzhanova, G. P. 1363, 1365
Avgelis, A. 2976, 4728, 8632
Avgelis, A. D. 943
Avidad, R. 5684
Avigliano, M. 4753
Avikainen, H. 6392, 6425
Ávila, A. C. de 1178, 5052, 5076
Avila, C. 4684, 7002
Avila, F. 8149
Ávila, M. G. 4705
Avila Valdez, J. 6890
Avinent, L. 2234
Avio, L. 1860
Avni, A. 2540, 8732
Avramović, G. 3139, 7099
Awad, H. M. 7389
Awad, M. M. W. 6892-6893
Awadalla, O. A. 6277
Awadhiya, G. K. 3055
Awadhwal, N. K. 2460
Awasaki, H. 6728
Aworh, O. C. 3875
Axiotis, S. 3500
Aydin, N. 2137
Ayele Badebo 1993
Ayers, J. E. 5922
Ayres, P. G. 3206, 4901, 6353, 6640, 7170
Ayub, M. 2806
Ayub, M. A. 2782, 2806
Azad, A. K. 4347
Azad, H. R. 3038
Azad, P. 2204
Azam, M. F. 1550
Azarenko, A. N. M. 4624
Azbenov, V. K. 783
Azcón-Aguilar, C. 8137
Azevedo, M. D. 7570
Aziz, T. 94, 4149, 4986
Azmi, O. R. 5257, 8437
Azuhata, F. 8227
Ba, A. M. 2495
Baan, H. E. van de 5663
Baard, S. W. 2877, 7672
Baath, H. 5192
Baayen, R. P. 7135
Baaziz, M. 5453
Baba, C. 3712
Baba, S. 1536
Babadoost, M. 1398, 2699
Babcock, C. E. 4223
Babcock, M. J. 5658, 7654
Babilas, W. 220
Babinec, F. J. 4346
Babini, A. R. 1054, 1587
Babović, M. 3834
Babu, K. N. 4878
Babu, M. K. 6242
Baby, U. I. 7554
Babylatha, A. K. 492
Bacchi, L. M. A. 7033
Bach, J. 6529
Bache, D. H. 5672
Bachelier, B. 4780
Bachik, M. R. 6285
Bächmann, K. 4940

Backes, G. 7488
Backhaus, G. F. 3174
Backhaus, H. 671
Backman, P. A. 4909, 8692, 8694
Bacon, C. W. 343, 3663, 5189, 7567, 8408
Bacon, R. K. 7434
Badawe, S. C. 2006
Badawy, H. M. A. 1091
Badebo, A. 829, 6650
Badger, G. J. 7904
Badiali, G. 5588
Badiyala, S. D. 5447, 6214
Badoux, S. 3660
Badr-Eldin, S. M. S. 5723
Badyal, K. 6154, 6218, 7752, 7807-7808, 8563, 8597, 8620
Bae, G. Y. 2925
Bae, S. D. 5205
Baelenge, B. 4717
Baenziger, P. S. 2690
Baerselman, R. 7208
Baetens, M. 3468
Bagaev, E. S. 4808
Bagchi, B. N. 6234
Bagdache, M. 1789
Bagge, J. O. 7474
Baggett, J. R. 372
Bagnall, R. H. 394
Bagnara, G. L. 5400
Bagnoli, G. 6345
Bagy, M. M. K. 1871
Bagyanarayana, G. 6552, 7366
Bagyaraj, D. J. 4979, 5721, 6493
Bahadur, P. 2668, 3523, 3526, 5868, 8299
Bahar, M. 6859
Bahel, S. C. 2464, 4096-4097
Bahnweg, G. 3749
Bai, D. 2650
Bai, F. H. 3420
Bai, J. K. 4394, 5574, 5787, 8567
Bai, K. V. 8472
Bai, R. L. 3192
Bai, S. H. 7852
Bai, X. Y. 4790
Baicu, T. 2599, 2926
Baider, A. 3716
Baĭleĭ, K. A. 2700
Bailey, A. M. 7390
Bailey, B. A. 4771, 8732
Bailey, D. A. 4857, 5673
Bailey, J. A. 2054, 3426, 6532, 6534-6535, 7174
Bailey, K. A. 2700
Bailey, K. L. 3472
Bailey, R. A. 533
Baillie, D. L. 3488
Bainbridge, A. 2021
Bainbridge, B. W. 1292
Bains, S. B. 7719
Bains, S. S. 887, 3752, 5151
Baird, R. 3044
Baird, R. E. 6248, 7355, 8693
Bajar, M. A. 812
Bajet, N. B. 3635
Bajwa, M. N. 2806, 3084
Baka, Z. A. 2431
Baka, Z. A. M. 2093, 7165
Bakare, O. N. 2527
Baker, F. A. 4838
Baker, R. 4214
Baker, R. T. 4955
Baker, S. H. 7355
Baker, T. S. 7406
Bakker, P. A. H. M. 669, 7138
Bakkeren, G. 5020
Bakr, M. A. 6017
Bala, G. 4266
Balakrishnan, S. 7989
Bălan, V. 7749
Balaram, P. 6584
Balardin, R. S. 2735, 5876, 6774
Balashova, N. N. 875, 8246, 8552
Balass, M. 6897
Balasubramaniam, S. 690
Balasubramanian, P. 1073, 7838, 7840, 8649
Balasubramanian, R. 6252
Balasundaran, M. 1749, 4796, 5542
Balaž, F. 5911
Balaž, J. 3680, 3690, 8663
Balázs, E. 1505, 8213
Balázs, F. 8271
Balbo, I. 1011, 1219, 6089
Baldomero Cuéllar, J. 6945
Balduque, R. 7756
Baldwin, B. C. 6640
Baldwin, N. A. 5565
Bale, J. S. 8706
Balestrini, R. 719, 3339
Balfas, R. 2416-2417, 8829
Bali, M. 4121, 4145
Balint-Kurti, P. J. 7679
Balis, C. 490
Balis, F. J. 5755
Balkema-Boomstra, A. G. 2692, 5177
Ball, A. M. 4702
Ball, O. J. P. 7573
Ball, S. F. L. 1315, 5196
Ball, S. L. 316
Ballabio, M. 1879
Ballester-Olmos, J. F. 3872, 4664
Ballesteros, J. 3543
Balmas, V. 4300, 6634
Balmer, E. 3601
Balmori, E. 803
Balows, A. 1781
Baltz, T. 4696
Bamford, D. H. 4931-4932
Banba, H. 7589
Bancroft, J. B. 5101
Banda, D. L. N. 493
Banerjee, A. 2480, 4280
Banerjee, A. B. 689
Banerjee, A. K. 2480
Banerjee, K. 5113, 8744
Banerjee, M. K. 5328, 7680
Banerjee, M. R. 2479
Banerjee, N. 3099
Banerjee, P. 3665
Banerjee, S. 1690
Banfield, E. C. 7082
Bang, R. 3497
Banga, M. 5759
Banihashemi, Z. 6801
Bankina, B. 616
Bankole, S. A. 6899
Banks, G. R. 7329-7330
Banks, H. J. 837
Banks, J. N. 1932
Banks, P. M. 1979
Bano, Z. 4019
Bansal, R. D. 3787, 4593, 6119, 6879
Bansal, R. K. 4546
Bänteli, R. 3621
Bañuelos, G. S. 6843
Banville, G. J. 3724
Bänziger, I. 5130
Bao, J. G. 1403
Bao, J. R. 1533, 1567, 1588, 6136
Bao, Y. M. 8369
Baon, J. B. 1856
Bar-Joseph, M. 3033, 6897
Bar Nun, N. 5754
Bar-Zur, A. 5920, 7504
Barak, Z. 6382
Barakat, M. I. E. 2105
Barakhtenova, L. A. 8797
Baral, D. R. 6905
Baral, H. O. 1920
Baranwal, V. K. 791, 2099
Barash, I. 2268, 3735
Barba, M. 1318, 2889, 2976, 3169, 4265, 4645
Barbanti, L. 536
Barbara, D. J. 2418, 3202, 4220
Barbarossa, L. 1117, 2610
Barbé, J. 3229
Barber, C. E. 4066
Barber, I. 8051
Barbier, M. 6185
Barbier, P. 5091
Barbina, M. T. 2994
Barbosa, P. 8235
Bărbulescu, A. 3460
Barceló, A. R. 6963
Barceló, D. 4088
Bardinelli, T. R. 5515
Barea, J. M. 2512, 8137
Barja, F. 6442
Barkai-Goland, R. 3808
Barker, H. 391, 2151, 2578, 4527, 6039, 8478
Barker, I. 6038
Barker, R. E. 5233, 7570
Barklund, P. 4842, 7119
Barlass, M. 2248
Barlow, E. 665
Barlow, H. S. 6378
Barna-Vetró, I. 6671
Barnaart, A. 5031
Barnard, E. G. 8297
Barnard, R. O. 7480
Barnes, G. 853
Barnett, J. P. 4831
Barnett, O. W. 156, 168, 211, 4249
Barnett, R. D. 8282
Barnett, W. W. 7753
Barr, D. J. S. 1631, 4227
Barr, M. E. 765, 7372, 7988
Barradas, M. M. 8425
Barratt, B. I. P. 7583
Barrault, G. 6684-6685
Barreto, M. 6871
Barreto, R. W. 766
Barrett, D. K. 4113
Barrett, K. J. 6702
Barrett, K. L. 8108
Barriuso Vargas, J. 6122-6123, 6887, 8579
Barros, B. C. 5261, 6698, 6780
Barros, N. F. de 7282
Barry, C. 8550
Bartels, G. 2002
Barth, K. M. 5979
Barth, S. 2800
Barthe, J. P. 1491, 6613
Barthlott, W. 6842
Barthod, C. 3123
Bartók, K. 3204
Bartoš, P. 1992, 2670, 3496
Bártová, P. 8114
Bartsch, B. D. 4447
Bartual Pastor, R. 8580
Baruah, B. P. 2746, 6884, 8387
Baruah, G. 4818
Baruzzini, L. 3737
Barysh, E. A. 69
Barz, W. 2900, 8549
Basallote-Ureba, M. J. 4544
Basandrai, A. K. 4338, 5153-5154, 7469
Basarkar, P. W. 306
Basedow, T. 4311
Baseman, J. B. 3456
Bash, J. A. 2262
Bashan, Y. 7893
Bashir, M. 378
Bashmela, S. M. 8431
Basim, H. 457
Baskin, C. C. 1672
Basler, P. 2981
Basse, C. W. 1551, 4588, 6101
Bassett, D. M. 3117
Bastawisi, A. O. 5215
Bastos, C. N. 1126, 7051
Basu, A. 2081
Basu, A. N. 3432
Basu, S. 5656
Basyony, A. E. 2105
Bateman, G. L. 8281, 8313
Bateman, R. 4093
Bates, G. W. 5495
Bates, J. A. R. 1823, 3276, 6422
Bates, M. R. 5017
Batista, M. I. 7934
Batlle, A. 7126
Batova, S. N. 5178
Batson, W. E., Jr. 1672
Battegazzore, M. 8116
Battilani, P. 2335, 3923-3924
Battistini, C. 6172
Batzer, J. C. 6398
Bau, H. J. 5079
Bauce, E. 7923
Baudin, P. 2050
Baudoin, A. B. A. M. 635, 8858
Baudrand, G. 1172
Baudry, A. 6151, 6167
Baudry, O. 2937
Bauer, D. W. 655, 657, 3243, 5651
Bauer, E. 8324
Bauer, H. 44, 1800
Bauer, H. A. 2303
Bauer, R. 778
Bauers, F. 3045
Baulcombe, D. 5498
Baulcombe, D. C. 3454, 8228
Baumanis, I. 1710
Baumann, M. 208
Baumann, R. A. 6435
Baumgartner, P. 6290
Baumgartnerova, H. 538
Bause, B. 3188
Bauville, G. M. 6577
Bavaresco, L. 3862
Baw, U. A. 2133
Bawa, A. 5342
Baxter, L. W. 607
Baxter, M. A. 8310
Bayerisches Landwirtschaftliches Jahrbuch 3215
Bayles, C. J. 7321
Bayles, R. A. 8297
Bayman, P. 7342
Bayot, R. G. 4683
Bayu, W. 6650
Bazin, H. 7400
Bazzalo, M. E. 1094
Beachy, R. N. 390, 434, 1659-1660, 1662, 2559, 3933, 4755, 5804, 7058, 7876, 7880, 8190-8191, 8199, 8499, 8718
Beaton, J. D. 2602
Beauchamp, C. J. 2822
Beaulieu, C. 1522, 4292
Beaumont, P. 66
Beaumont, P. R. 8059
Beaver, J. S. 2126, 8450
Beaver, R. W. 4407, 7836
Bebee, C. N. 2047, 2218
Bécard, G. 1862, 3342, 5731
Becerra L., N. 7022
Bech, K. 1059, 6339
Becher, D. Z. 3278
Bechere, E. 258, 6646
Beck, D. L. 3442
Beck, J. J. 3932
Beckenbach, K. 3488
Becker, J. O. 569
Becker, W. F. 987
Beckett, A. 5009-5010
Beckman, D. P. 8756
Bedendo, I. P. 2080
Bedford, R. J. 7790
Bedi, P. S. 4301, 8460
Bedi, S. 4488
Bedlan, G. 3813, 4562
Beede, R. H. 8255
Beek, J. G. van der 7677
Beer, S. V. 657, 1209, 5651
Beetz, H. M. 7631
Beghdadi, A. 7577
Begunov, I. I. 2739
Behl, M. K. 4573-4574, 6120
Behn, H. 2167
Behrmann, P. 3326
Behroozin 6651
Behroozin, M. 1408, 1748
Beier, H. 2349
Beijersbergen, A. 7189
Beimen, A. 2900, 8549
Beissmann, B. 154-155, 843
Bejarano, E. R. 5500, 7881
Bekele, B. 8275
Bekele, G. 5166
Bel, A. J. E. van 1741
Belanger, R. P. 7116
Bélanger, R. R. 1032, 6898

Bélanger R. R. 4605
Belgium, International Group of National Associations of Manufactures of Agrochemical Products 3254
Belgium, International Group of National Associations of Manufacturers of Agrochemical Products 5666
Belgium, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 2121
Belisario, A. 514, 7912
Bell, A. A. 574, 2356
Bell, C. E. 4291, 6069
Bell, D. K. 6248, 8693
Bell, J. W. 8695
Bellani, L. M. 4804
Bellardi, M. G. 1955, 2402, 3190, 3201, 3993, 4862, 4872, 6351
Bellei, M. de M. 4116
Bellei, M. M. 7282
Bellemann, P. 1053, 6400
Bellés, J. M. 3764, 4268
Belletti, P. 6855
Bellezza, G. 3681
Bellgard, S. E. 1265, 6490-6491
Bellini, E. 465
Belmar N., C. 5159
Bel'skaya, S. I. 4511
Beltman, W. H. J. 3306
Beltrami, G. 2335, 3922-3924
Beltran, J. 8070
Belyaeva, N. L. 4523
Belyakova, G. A. 3954
Belyatskaya, O. N. 816
Ben-Arie, R. 3882, 4039
Ben-Tullila, Z. 2165
Ben-Yehoshua, S. 3015, 4676
Ben-Yephet, Y. 2183, 7137, 7667, 8813
Benada, J. 1356, 2623
Benages Sanahuja, S. 1007
Benbrook, C. M. 34
Bender, J. 1496
Bendiab, K. 5453
Benedict, J. H. 574
Beneš, M. J. 2886-2887
Benfey, P. N. 1943-1944
Bengtsson, M. 3379
Bengtsson, P. 8065
Benhamou 1295
Benhamou, N. 1491, 2191, 2196, 3774, 4605, 4768, 6274, 6526, 6898
Benítez, T. 2619, 7341
Beniwal, M. S. 2664, 2667, 2685
Beniwal, R. S. 5732
Beniwal, S. P. S. 377, 961, 7001
Benizri, É. 5005
Benjama, A. 4712, 6245
Benken, A. A. 826
Benliogülu S. 6098
Benlloch, M. 6243
Bennett, A. W. 4472
Bennett, M. A. 1975
Bennett-Easy, M. 7040
Bennetzen, J. L. 1966, 4275
Benni, A. 4872
Bennounane, L. M. 7117
Benny, U. 7325
Benoit, F. 6853, 8561
Benoit-Guyod, J. L. 6719
Benscher, D. 5357
Benson, D. M. 4856, 8810
Benson, M. 2222
Bent, A. 5825
Bent, A. F. 1201
Bentivenga, S. P. 4163
Bentley, W. J. 6069, 7753
Benuzzi, M. 1359
Benz, B. 4846
Benzi, D. 6150
Beohar, A. B. L. 2815
Bera, S. 8842
Beradze, L. A. 7009
Beratlief, C. 1628
Bercea, V. 3204
Berch, S. M. 4143
Bereberdina, G. I. 8416
Beremand, M. N. 8153
Bereswill, S. 8430
Beretta, M. J. G. 6213
Berg, B. P. 2098
Berg, C. C. 2757
Berg, C. G. J. van der 6232
Berg, F. van den 4102
Berg, M. A. van den 5444
Berg-Velthuis, C. M. van den 6096
Bergamini, A. 1571
Bergemann, J. 108
Berger, B. 2483
Berger, C. H. 3281
Berger, P. 3960
Berger, P. D. 3281
Berger, P. H. 162
Bergère, D. 2937
Bergeron, S. N. 231
Berggren, G. T. 1437, 2106
Bergh, T. 1227
Bergman, S. 7439
Bergmann, B. A. 3156
Bergmann, C. 5019, 5258
Bergmann, W. 8021-8022
Bergmans, C. J. B. 5745-5746
Bergstrom, G. C. 834, 2015, 6658
Bergström, L. 7224
Bergvinson, D. J. 2392
Beriam, L. O. S. 7158
Berjak, P. 130, 303, 879, 7506, 8352
Berlyn, G. P. 2506, 3164
Berman, P. M. 3041
Bermejo, V. 5380
Bermpohl, A. 1015, 2900
Bermúdez, M. 587
Bermúdez Abreu, G. 2329
Berna, A. 5501
Bernard, E. C. 4444
Bernard, R. L. 361, 940, 1480-1481
Bernards, M. A. 3773
Bernat, I. 6962
Bernatzky, R. 8779
Berner, D. K. 2775
Bernetti, G. 8772
Bernhard, F. 1053, 7192
Bernicchia, A. 764
Bernier, C. C. 2111, 6003
Bernier, L. 6297
Bernier, P. Y. 2496, 4963
Bernillon, J. 2498
Bernson, V. 8062
Berre, A. le 2404
Berrie, A. M. 2954, 2958, 8607
Berry, D. 6267
Berry, L. A. 100
Berryman, A. A. 8790
Berryman, C. A. 3569
Berta, G. 1279, 3339, 4169
Bertaccini, A. 1955, 3190, 3201, 3993, 4265, 4862, 4872, 6351, 8233, 8521
Bertheau, Y. 4178, 6401, 7387
Bertrand, F. 6133
Berville, A. 1068
Beshear, R. J. 3433, 8722
Bespalova, I. N. 1345
Besri, M. 4584, 6099
Bessis, R. 6185-6186
Beste, C. E. 4893
Beswetherick, J. T. 8560
Bethlenfalvay, G. J. 3351, 4118, 4120, 4157-4158, 8138
Bettermann, A. 7017
Betti, L. 3190, 4592
Bettini, P. 7678
Bettiol, W. 122, 3483, 5260
Bettucci, L. 6505, 7090
Beuret, E. 2981
Beuve, M. 926, 6696
Bevan, J. R. 8854-8856
Bevan, M. W. 3442
Beversdorf, W. D. 2104
Beyer, E. M. 5688
Beyer-Ericson, L. 1161
Beyrle, H. 1278
Beyrle, H. F. 7311
Bezerra, J. L. 2320, 6995
Bezrukova, M. V. 249
Bhagabati, K. N. 2217, 5382, 7846
Bhagat, S. 2399
Bhairi, S. 2532
Bhairi, S. M. 368
Bhale, M. S. 1220
Bhalla, M. K. 373
Bhalla, P. L. 2134
Bhan, U. 248
Bhandari, D. S. 7909
Bhandari, T. P. S. 4855
Bhandhufalck, A. 5956
Bhansali, R. R. 4589, 8658
Bharadwaj, S. C. 3526
Bharat Rai 965
Bhardwaj, C. L. 3642, 3708, 8445-8446
Bhardwaj, L. N. 3392, 3810, 4690, 5778, 7356, 7975, 8638
Bhardwaj, S. C. 256, 262, 841, 2005, 4329, 8299, 8837
Bhardwaj, S. S. 8510
Bhardwaj, S. V. 4607
Bhargavan, P. 8783
Bhaskar, R. B. 7585, 8466
Bhaskaran, R. 528, 7023, 7686, 7825
Bhaskaran, S. 3625, 7514
Bhat, M. N. 2321, 4794, 5877
Bhat, R. 1087
Bhat, R. G. 1634, 2321, 5253, 6515-6516, 7322, 7593
Bhat, R. N. 3173
Bhat, S. G. 4770
Bhat, S. S. 310, 3941, 4770, 7866, 7866-7867, 7867
Bhat, Z. 1493
Bhatia, C. R. 1657
Bhatnagar, D. 3947
Bhatnagar, G. C. 5897, 7492
Bhatnagar, M. K. 1537, 5313, 7628, 7630
Bhatnagar, P. R. 8236
Bhatnagar, R. 2005
Bhatnagar, T. 7117
Bhatnagar, V. K. 8236
Bhatt, J. C. 912
Bhatta, G. K. M. G. 4880
Bhattacharya, D. 5023, 6024
Bhattacharya, R. 7358
Bhattacharyya, P. 970
Bhattacherjee, N. S. 2777
Bhatti, D. S. 3509
Bhatti, M. A. 376, 2808
Bhatti, M. A. R. 3077
Bhatti, N. N. 2629
Bhattiprolu, S. L. 5256
Bhide, V. P. 7962
Bhowmik, T. P. 1316, 6247
Bi, Y. 8593
Bi, Y. Q. 3534
Biaggi, M. de 3090
Biancardi, E. 3092
Bianchi, D. 1817
Bianchi, G. L. 2250
Bianciotto, V. 719, 1865, 4999
Bianco, P. A. 3181
Bicherov, E. V. 572
Bidari, V. B. 6885
Biddle, A. J. 5268
Bieber, L. W. 1240
Bielser, G. 4805
Bieysse, D. 6267
Biggs, W. D. 1683, 1685
Bikkar Singh 6906
Biles, C. L. 5346, 8506, 8582
Bilgrami, K. S. 2178, 3605, 3755, 5127, 5629, 7172
Biliński, Z. R. 8329
Bill, L. 6794
Bills, G. F. 1174, 1757
Bilton, J. 4495
Bimbatti, M. 8702
Bina, J. 4776
Binarová, P. 2762, 7581
Binder, R. G. 8105
Bineeta Sen 3807, 3809
Binkerd, K. A. 856
Binns, A. N. 1208
Biondani, D. 3092
Biondi, G. 1039
Birchmore, R. J. 7443, 8261
Birckenstaedt, E. 3422
Bird, A. F. 8414
Bird, G. W. 5409
Birgelis, J. 1710
Birhanu Bekele 8275
Bisaro, D. 5499
Bisaro, D. M. 1340, 1665, 2583
Bishop, B. L. 4094
Bishop, C. D. 8560
Bishop, G. 8541
Bishop, G. W. 819-820
Bisht, I. S. 3584, 8507
Bisht, S. S. 3742
Bissett, J. 767
Bist, L. D. 3025
Bistrickaitė, G. 7134
Biswal, G. 7549
Biswas, A. 1111, 8584
Biswas, B. 8605
Bitijula, M. 4717
Bjarko, M. E. 864, 8325
Bjørn, S. E. 2696
Blache, D. 7931
Blachowska, E. 5485
Black, L. L. 6121, 7771
Black, L. M. 2769
Black, R. 4050
Blackmer, J. L. 819
Blada, I. 3149, 3987
Blakebrough, M. 900
Blakebrough, M. L. 1341
Blakeman, J. P. 1779, 8254
Blakemore, E. J. A. 5196
Blanc, F. 7951
Blancard, D. 2880, 3784, 4047, 7062
Blanchette, R. A. 597, 4213
Blaney, W. M. 5668
Blank, R. H. 7799
Blankenship, P. D. 3066
Blanquat, A de S. 3960
Blas, C. de 2618, 2790, 4490, 6007, 8573
Blasius, D. 4128
Błaszkowski, J. 3350
Blau, G. E. 1809
Blaurock, B. 4816
Blazhev, V. 1471
Blazquez, C. H. 6980
Bleicher, J. 2960
Bleih, S. 7524
Blein, J. P. 7065
Blenis, P. V. 4035, 8785
Blessington, T. 7958
Blinova, V. P. 2598
Blok, V. C. 5070
Blok, W. J. 432
Blom, J. 5238
Blotskaya, Zh. U. 8474
Blotskaya, Zh. V. 8474
Blouin, P. 3565
Blount, J. W. 4456
Blua, M. J. 4594, 7706, 8586
Blum, L. E. B. 1698
Blume, E. 2525
Blumwald, E. 8565
Blyden, E. R. 8245
Boal, R. J. 1577
Boaro, C. S. F. 2773
Boboş, I. 8832
Bobko, I. N. 4833
Bobkova, A. F. 3088
Bobková, L. 8277
Boboye, B. E. 4933
Bobryshev, F. I. 8278
Bobylev, G. S. 392
Bobyr', A. D. 8723
Boccara, M. 4292, 6401
Boccard, F. 3454
Boccardo, G. 2590, 4891
Bochow, H. 745, 6608
Bock, K. 6101
Bock, T. S. M. de 3917
Bockelman, H. E. 8325
Bockus, W. W. 860, 4308, 6662

Boddy, L. 1150, 1155, 1869, 1882
Bode, L. E. 3256
Boehm, E. W. A. 1881, 1998
Boer, H. G. de 1113
Boer, R. F. de 3510, 5880
Boerema, G. H. 8172
Boerma, H. R. 353
Boerner, R. E. J. 1266-1268
Boersma, L. 699
Boese, D. E. 410
Bogani, P. 7678
Bogdanova, D. A. 7903
Bogdanova, M. A. 8340
Bogdanowicz, J. 6143
Bogomolov, A. M. 8340
Boguslavskaya, N. V. 979
Bogusz, D. 8499
Bogyo, T. P. 2085
Boher, B. 6066
Bohlmann, H. 5761
Böhmer, M. 2675
Bohmont, B. L. 8036
Bohn, M. 7907
Boić, M. 8724
Boidron, R. 483
Boĭko, N. I. 838
Boiteux, L. S. 4591, 5345
Bojko, R. J. 4477
Bojňanský, V. 538, 4725, 4729
Bojsen, K. 7014
Bokhoven, H. van 5063
Bol, J. F. 4756, 7966, 8720
Bolan, P. M. 1684
Boland, G. J. 1494, 2765
Boland, R. M. 6759
Bolaños, A. E. 6509
Bolay, A. 2930, 6856
Bölker, M. 108, 884
Bolkvadze, Z. A. 2053
Boller, E. F. 8630
Boller, T. 1551, 3355, 4178, 4588, 4772, 6101
Bollet, C. 3249
Bol'shakova, L. V. 1128
Bolton, A. T. 1422, 2713, 4393, 5921
Bolton, B. J. G. 8671
Bolyard, M. G. 3142
Bolygó, E. 2471
Bon, M. 2209
Bonas, U. 1011, 1219, 5349, 6089, 6888
Bonde, M. R. 5909
Bondoux, P. 4608
Bonello, P. 4840
Bonfante, P. 1865, 2490, 3339, 3355
Bonfante-Fasolo, P. 719, 4999
Bonilla, J. 5683
Bonire, J. J. 6068
Bonish, P. M. 2088
Bonman, J. M. 2744, 4419, 4440, 5958
Bonnel, E. 3075
Bonnet, P. 7065
Bonneville, J. M. 1945
Bono, J. J. 6524
Bontea, V. 7177
Bontoyan, W. R. 49
Bookland, R. 7017
Boon, J. J. 5581
Boonekamp, P. M. 8816
Boorer, K. J. 6814
Booth, G. M. 8113
Bora, G. C. 5384
Bora, L. C. 6029
Bora, P. 5383
Borbor Ponce, M. M. 7048
Borborua, A. 5780, 6045
Borbye, L. 6683
Borchardt, D. C. 5908
Borden, J. H. 2392
Borders, B. E. 6305
Bordin, A. P. A. 6689
Bordjiba, O. 2239-2240
Bordoloi, D. N. 2414
Bore, J. M. 3827
Borge, J. F. R. 6189
Borges, A. C. 7282
Borgmeyer, J. R. 1835
Borgonovi, G. E. 6413
Borić, B. 2712, 5914, 6241
Borie B., F. 4988
Borin, R. B. G. R. 2881
Borisenok, A. B. 398, 2159
Borja, M. J. 1343, 5460
Borkar, S. G. 2364, 3956, 8363
Borkhardt, B. 950, 5809, 6271
Borojević, K. 246
Boronin, A. M. 6405, 6607
Borovkov, A. Y. 7339
Borowicz, J. J. 11
Borrelli, C. 3092
Borromeo, E. S. 4429, 5958
Bors, B. 2225
Borst-Pauwels, G. W. F. H. 5707-5708
Borthakur, B. K. 2746
Börtitz, S. 7956
Boruah, P. 2414
Borzionova, T. I. 4345
Bos, L. 161, 924
Bosch, U. 3545, 7859
Boscia, D. 2580, 7778
Bošković, J. 1389, 3223, 5862
Bošković, M. 3223, 5862
Bosland, P. W. 2201
Bosque-Pérez, N. A. 8345, 8347
Bosshard, E. 2941
Bostock, R. M. 2160, 6049, 8487
Botha, T. 3028
Botha, W. J. 1723, 1750
Bothast, R. J. 4236, 6357, 6369, 8847
Bothe, H. 2513
Bottalico, A. 101
Böttger, W. 253
Botton, B. 8128
Botyan, G. N. 3673
Boubals, D. 4648, 4652
Bouchard, D. 89
Boucher, A. 396, 5568
Boucher, C. A. 1202, 8035
Bouchery, Y. 1120
Boudarga, K. 93
Boudier, B. 7089
Boudon-Padieu, E. 1068, 3856, 6175
Boudreau, M. A. 2123, 3685
Bougher, N. L. 4974
Bouhida, M. 3437
Boulby, G. L. 3565
Boulianne, R. 4189
Boulter, D. 2434
Boulton, M. I. 900
Bound, S. A. 3829
Bounias, M. 6307
Bourbos, V. A. 4651, 5429, 7026
Bourdin, D. 2209
Bourke, T. V. 7872
Bourlot, G. 1573
Bourson, C. 4059, 6401
Bousquet, J. 7301
Bousquet, J. F. 3545
Bousquet, N. 1845
Bouton, J. H. 4448
Boutry, M. 1377
Bouwman, G. M. 5567
Bouwman, J. J. 8491
Bouwmeester, T. 1680
Bouzar, H. 7199
Bouzayen, M. 8550
Bové, J. M. 1348, 5110, 5112, 6211, 6213
Bowden, R. L. 2684, 5977
Bowen, C. 8689
Bowen, K. L. 1102, 6246, 7028
Bowers, G. R., Jr. 940, 5992
Bowers, M. A. 3668
Bowles, D. J. 2436
Bowley, S. R. 2518
Boxen, K. A. 3442
Boyacioglu, D. 855
Boyce, R. L. 3164
Boyd, C. 3238
Boyd, C. J. 3753
Boyette, C. D. 1760, 1762, 3208, 4897, 7999, 8848
Boyhan, G. E. 6941
Boyko, V. P. 3446
Boyle, C. 7665
Boyle, J. S. 1547
Brabant, P. 7466
Braber, K. den 7203
Bradbury, S. M. 2518
Bradfute, O. E. 2708
Bradshaw, N. J. 3725, 6054
Bragard, C. 828, 2025
Brain, P. 4299
Braithwaite, K. S. 3414, 6758
Braithwaite, M. 7747
Brake, V. M. 294
Brakez, Z. 5453
Bramel-Cox, P. J. 4274
Brammall, R. A. 6862
Brand, R. 4245
Brandão, M. S. B. 5260
Brändle, U. 3581
Brändle, U. E. 3133
Brandolini, A. 4512
Brandon, D. L. 8105
Brandšteterová, E. 4954
Brandt, J. 2038, 4362, 8327
Branišová, H. 1694, 3450, 5049
Branzanti, B. 2919
Braselton, J. P. 5297
Brash, D. W. 7750
Brasier, C. M. 3969, 5017, 7378, 7763
Brask, P. 6460
Bratek, Z. 6566
Brathwaite, C. W. D. 4499
Brauch, H. J. 2470
Brault, V. 3738, 3939
Braun, C. J. 5497
Braun, E. J. 4401
Braun, H. E. 435
Braun, P. G. 1576, 6144
Braun, U. 2531, 3217, 5042, 6552-6553, 7361, 7366, 7375, 7380
Braunberger, P. G. 2517
Braunschweiler, H. 1824
Braunworth, W. S., Jr. 493, 6147
Braver, A. C. Den 402
Bravo, N. 4722
Brawley, P. W. 6767
Bray, D. 8120
Bray, R. A. 2763
Brazee, R. D. 2244
Brazner, J. C. 7262
Brecht, E. 5550
Brede, A. D. 932
Brederode, F. T. 8720
Breen, J. P. 6333
Breiman, A. 150
Breitenstein, G. 2628
Brender, E. V. 7115
Breniaux, D. 2937
Brennan, R. F. 850-851, 3548
Brenneman, T. B. 3070, 3072, 6248, 7031, 7836, 8635, 8693
Brenner, D. J. 8
Brereton, P. S. 6058
Bres, W. 8520
Bres-Vloemans, S. A. 5509
Bresinsky, A. 3411
Brettell, J. H. 6278
Breuil, C. 1690
Brew, A. H. 7873
Brewer, G. 6038
Breyel, E. 862
Briand, J. P. 808
Briceño, R. 4743
Briddon, A. 6048
Briddon, R. W. 3440
Bridge, J. 7891, 8646
Bridge, P. D. 4777
Brigati, S. 2220, 3863
Briggs, S. P. 2064, 2716, 3594
Brignani Neto, F. 325, 331, 579
Brill, L. M. 2783
Brindle, I. D. 79
Brink, G. E. 348
Brinker, A. M. 2331
Brioso, P. S. T. 5084
Brishammar, S. 3379
Brisset, M. N. 4058
Brissette, J. C. 4831
Brisson, N. 3714
Brittain, J. A. 6332
Britton, D. W. 4089
Britton, K. O. 588, 3146, 7105
Broadbent, A. B. 5424, 8814
Broadbent, P. 3873, 5445
Broadhurst, P. G. 4546
Broadley, R. H. 5417, 6215
Broadway, R. M. 4176, 5000-5001
Brodelius, P. E. 7877
Brodersen, H. 1681
Brodowsky, I. D. 1400
Brody, A. K. 3948
Broekaert, W. F. 4276, 7901
Broers, L. 1999
Broggio, M. 2164
Broglie, K. 6274, 6526
Broglie, R. 6274, 6526
Bromand, B. 5685, 7236
Bronshteĭn, A. I. 8246
Brookes, P. C. 3308
Brooks, A. 4774
Broom, E. W. 3664
Broome, J. C. 3117
Broomfield, P. L. E. 1289, 8350
Broschewitz, B. 7815
Brough, C. 5499
Brough, C. L. 1665
Brousseau, B. 21
Brouwer, D. H. 6436
Brouwer, R. 6436
Browder, L. E. 860
Brown, A. E. 118, 1929, 2261, 3865, 3869, 4463, 4616, 6148, 6974, 7776, 7802
Brown, A. H. D. 2103
Brown, A. R. 2701
Brown, C. M. 4372
Brown, D. J. F. 3453, 8229
Brown, D. J. K. 1950
Brown, D. L. 1690
Brown, E. A. 1711
Brown, E. M. 6914
Brown, I. 6888
Brown, J. F. 552, 3211, 7995
Brown, J. F. C. 5601
Brown, J. K. 566, 1940, 2353
Brown, J. K. M. 867, 3578, 4367
Brown, M. E. 8313
Brown, M. S. 3351
Brown, N. S. 491
Brown, P. 5358
Brown, P. D. 873
Brown, R. A. 8112
Brown, R. H. 685
Brown, T. K. 3327
Browning, J. W. 3754
Browning, K. S. 5175
Browning, M. H. R. 8123, 8126
Brownlee, A. G. 7317
Broyakovskaya, K. N. 535, 7047
Bruchet, A. 1248
Bruck, R. I. 4839
Bruckart, W. L. 4893, 6359, 8858
Brückner, B. 5013
Brudea, V. 3460
Bruening, G. 1343, 3443, 3452
Bruenn, J. A. 5819
Bruggen, A. H. C. van 6104, 7682
Bruggen, P. van der 6833
Brugger, J. J. 2981
Bruhn, J. N. 6474
Brumhard, B. 83
Brun, A. 8128
Brun, S. 4650
Brunelli, A. 1193, 2613, 2919, 7758, 7760
Brüning, H. 2821
Brunner, F. 6466
Brunner, I. 3332, 5705, 6466
Brunner-Keinath, S. 2978, 7762
Bruns, T. D. 775, 6574
Brunt, A. A. 158, 990, 8841
Bruton, B. D. 445, 8602
Bruzzese, E. 6360
Brygoo, Y. 116, 2079

Bryngelsson, T. 2033, 2605
Bryson, R. J. 6532
Bu, W. W. 4443
Buanec, B. le 6261
Buangsuwon, D. 4397
Bubrick, P. 1030
Buchanan, G. A. 482
Buchenauer, H. 2465, 4305, 6632
Bucher, P. 6323
Buchko, J. 1631
Buchner, R. P. 3849
Buchner, W. 218
Buck, K. W. 5017, 5500, 7412
Bücking, W. 8767
Buckley, B. 3443
Bucurean, E. 3460
Budde, A. 883
Budde, A. D. 5185
Budge, S. P. 3469, 7016, 8504
Budhraja, T. R. 3912
Bud'ko, V. S. 69
Budnikov, G. K. 5691
Budzikiewicz, H. 670
Buell, C. R. 6788
Bueno, J. T. 2646
Buerkert, A. 8441
Buffa, G. 2736, 5964
Bugaret, Y. 3747
Bugbee, W. M. 3919
Bügel Mogensen, B. 1236
Bugiani, R. 3816, 4204
Buhr, T. L. 7338
Bui, P. T. 2346
Buiatti, M. 7678
Buikema, A. L., Jr. 7260
Bujakiewicz, A. 3217
Bujarski, J. J. 5095, 5103, 8217
Bujauskas, A. 2827
Bukovac, M. J. 6428
Bulajić, A. 3834
Bulatnikova, L. I. 816
Bulavīna, T. M. 5183
Bulisani, E. A. 5262
Bull, J. 2671
Bulletin OEPP 7272
Bulletin of Taiwan Tobacco Research Institute, Taiwan Tobacco & Wine Monopoly Bureau 4051
Bullock, R. C. 2145
Bullock, S. 103
Buloĭchik, A. A. 8305-8306
Bunge, G. 7166
Bungutsiki, B. 8273
Buonaurio, R. 2788, 2911, 6944
Burchill, R. T. 3462, 4039
Burd, P. 5448
Burdekin, D. A. 2375
Burden, R. S. 6701, 8094
Burdon, J. J. 1868, 2103, 3205, 3988, 5115
Burge, G. K. 3864
Burger, D. W. 6331
Burgess, L. W. 4226
Burgess, P. J. 6058
Burgett, D. M. 7729
Bürgi, A. 1720
Burgyán, J. 1666, 8213
Buriticá, P. 362
Buriticá Cespedes, P. 2721, 2759
Burk, R. 8749
Burkadze, N. 6994
Burket, J. Z. 140
Burlinson, N. E. 8103-8104
Burnes, P. M. 4235
Burnes, T. A. 597
Burnett, F. J. 6058
Burnett, P. A. 7437, 8270
Burnette, D. C. 7500
Burns, T. M. 4251
Burov, B. V. 1008
Burpee, L. L. 928, 4448, 6356
Burr, T. J. 655, 2933, 6193
Burrell, M. 5500
Burruano, S. 4647, 6180
Bürstmayr, H. 6673
Burt, J. P. 8056
Burth, U. 981, 2841
Burtin, D. 564
Burton, H. R. 8406
Burton, R. J. 1836
Buruchara, R. 8333
Busch, H. 3662
Büschbell, T. 2647
Buschhaus, H. 7443, 8261
Buscot, F. 1166, 4140
Bush, A. L. 1736
Bush, L. P. 8406
Bush, T. D. 6767
Bushkova, L. N. 1520
Bushnell, W. R. 1881, 1998, 3367, 5179
Bushway, R. J. 2979, 8074
Busi, L. 2649, 7456
Busolo-Bulafu, C. M. 5478
Busse, H. J. 6
Bussink, H. J. D. 8158
Bustamante, E. 442
Buszard, D. 6951
Butcher, M. R. 7736
Butin, H. 2377, 7092, 7094
Butler, D. G. 2101
Butler, E. E. 123
Butler, L. 5236
Butler, R. 4111
Butt, D. J. 2952
Butt, T. M. 5009-5010
Butterfield, J. E. 5643
Butters, J. A. 8151
Buttler, T. M. 8056
Buuren, M. van 2350
Buxton, F. P. 8158
Buxton, R. J. 6360
Buysens, S. 227, 6869
Buzási-Győrfi, A. 1830
Buzhenko, V. F. 252
Buzzel, R. I. 2104
Buzzell, R. I. 360
Bykova, L. B. 816
Byrde, R. J. W. 1251
Byrne, O. 267
Byrum, J. 8442
Bystrykh, E. E. 5884
Byther, R. S. 404, 463, 583, 1040, 1057-1058, 1175, 1722, 2388, 2409
Byyukli, P. I. 875
Cabauatan, P. Q. 3634, 7532, 8368
Cabello, M. N. 1264
Cabral, D. 3982
Cabral, J. P. S. 1214, 4924
Cabrera Bautista, S. 7011
Cabrido, E. F. 2460
Cacciari, A. 8075
Cacciola, S. O. 4823
Caccioni, D. 3863
Caciagli, P. 2709, 4891
Cacioppo, O. 2259, 3885
Cadahia, D. 8757
Cade, S. C. 4839
Cadena-Hinojosa, M. A. 6804, 6808, 6812
Cadet, P. 2901
Caesar, A. J. 8860
Cagaš, B. 1468, 4450-4451
Cai, B. T. 1383
Cai, X. C. 8122
Cai, Y. S. 2864
Cai, Z. N. 537, 4000
Cailly, M. 3811
Cairney, J. W. G. 6482
Cairns, T. 4071, 4090
Cal, A. de 2242, 3847, 7759
Caldas, L. Q. A. 78
Calderón, A. A. 6963
Calderón Díaz, J. H. 7048
Calero, S. 3229
Çali, S. 785, 4576
Calicari, P. D. S. 2165
Caligari, P. D. S. 4512
Calitz, F. J. 6927
Call, N. G. 409
Callan, B. E. 7377
Callan, N. W. 1975
Callow, J. A. 4863
Calus, A. 2121
Calvert, L. 1141
Calvert, O. H. 889
Calvet, C. 1262, 2512
Calveto, S. B., Jr. 7538
Calzolari, A. 6875
Calzolari, S. G. 4304
Camacho de Torres, E. F. 7842
Câmara Machado, A. da 1327, 1585, 3434, 3836
Câmara Machado, M. L. da 1327, 1585, 3434, 3836
Camargo, A. P. de 5518
Camargo, M. 424, 5307
Camargo, O. B. A. 5222
Cambra, M. 4664, 6203
Camele, I. 2969, 3770
Cameron, A. M. 984
Camilleri, C. 7185
Camino, V. 2910
Camino A., J. M. 7695
Camoni, I. 2478
Campbell, C. L. 142, 506, 2096, 4457, 4684, 7582
Campbell, H. L. 4693
Campbell, R. 8313
Campbell, R. N. 2592, 5807, 6088
Campêlo, A. M. F. L. 2339
Campi, A. 536
Campillo, E. del 1497
Camporota, P. 7724
Campos, L. A. 2018
Campos, L. A. C. 2633
Campos, R. 7123
Campos F., C. 6823
Campos Gimeno, T. 8580
Camps, Z. 3106
Can, F. 8604
Canada, Centre de Foresterie des Laurantides, Forêts Canada 2376, 8758
Canada, Ministère des Forêts 2376, 8758
Canaday, C. H. 1000
Canadian Phytopathological Society 1768-1769, 5118, 6374
Candido, M. di 3778
Candilo, M. di 4575, 6875
Candresse, T. 1056, 2575, 3451, 3939, 5059, 5401
Canestrale, R. 2929
Canning, A. M. 1885
Cannizzaro, G. 6156
Cannon, J. P. 5725
Cannon, P. F. 589, 1903
Cannoodt, M. 7853
Cano, M. A. O. 2367
Canova, A. 3089, 3922, 3924, 4592
Canovas, I. 4600
Cantinho, C. 10
Cantone, F. A. 5813
Canullo, G. H. 4211
Cao, D. X. 8496
Cao, J. 5967
Cao, J. L. 8391
Cao, L. W. 8106
Cao, Q. 8226
Cao, R. B. 1308, 1312
Cao, R. H. 351
Cao, T. Q. 4255
Cao, W. G. 8127
Cao, X. J. 338
Caon, G. 4447
Capasso, R. 5025
Cape, J. N. 595
Capell, S. S. 3300
Capitán, F. 5684
Capitán-Vallvey, L. F. 5684
Caplan, A. B. 6538
Capobianco, J. O. 1783
Capone, I. 3108
Caponero, A. 6955
Caponigro, V. 6270
Cappaert, M. R. 2843
Cappelli, C. 2691, 6237
Capper, A. L. 274, 8314
Caprari, C. 5019
Capretti, P. 593
Capriotti, G. 4241
Capron, L. K. 2933
Capy, M. P. 2079
Caraballo, E. 2909
Carazo, G. 2618, 2790, 4490, 6007
Carbonell, E. A. 4664
Carbonell, J. 4268
Carbonell Guevara, E. A. 8580
Cárdenas S., E. 6812
Cardenas-Soriano, E. 6808
Carder, J. H. 4220
Cardina, J. 4027
Cardoso, A. A. 1525
Cardoso, R. M. G. 579, 3185, 4004
Carelli, A. 2560
Caretta, G. 3639
Carew, G. C. 7082
Carey, P. D. 4995
Cariddi, C. 2648, 4496
Caris, L. M. 637
Carisse, O. 4531
Carling, D. E. 7284-7285
Carlos Dias, J. 7051
Carlos Lozano, J. 1529
Carlsson, U. 631, 5607
Carlton, R. R. 1833
Carmeli, S. 4676
Carmichael, N. G. 8044
Carminati, C. 4169
Carmine, D. di 8530
Carmona, M. J. 6275
Carnegie, S. F. 984, 6032
Carpenter, C. D. 1946, 2582
Carr, J. E. 1226
Carr, J. P. 1658
Carranza, J. 587
Carraro, L. 1571, 2596, 3856, 4265, 6593, 6956
Carras, M. M. 731
Carré, M. A. 8060
Carreras, R. 7934
Carriere, J. B. 2306
Carrillo, A. 7486
Carrillo, G. C. 2447
Carrillo, M. C. 2878
Carrington, J. C. 171, 2576, 5093, 8215
Carrion, G. 2430
Carris, L. M. 4637
Carroll, B. 8541
Carroll, G. C. 1837, 2435, 3982, 7122
Carroll, N. B. 5341
Carroll, R. B. 5922
Carroll, T. W. 1372
Carsel, R. F. 1803
Carter, G. A. 6286
Carter, M. W. 8113
Carter, N. 2702
Cartín L., V. 386
Cartwright, D. K. 1188
Carughi, M. 8252
Carvacho, O. F. 2254
Carvajal, R. 7006
Carvalho, A. M. 5437
Carver, T. L. W. 2705, 5181, 6630, 8330
Carzaniga, R. 2538
Casacuberta, J. M. 6703
Casagrande, L. I. T. 2520
Casali, V. W. D. 1525
Cascone, P. J. 1946
Case, S. E. 2689
Casela, C. R. 1436
Casida, L. E., Jr. 2615
Casper, H. H. 4407
Casper, R. 2562, 7182
Cassalett D., C. 6255
Casselton, L. A. 710
Cassier, P. 4950
Cassiolata, A. M. R. 438
Cassol, L. C. 4164
Castagnoli, F. 6881
Castañeda, P. 6465
Castañeda Ruiz, R. F. 3391
Castañera, P. 4354
Castanho, B. 8099
Castaño, F. 2299
Castaño, M. 1141
Castaño Z., J. 3686
Castelain, C. 2233, 7748
Castellano, M. A. 694, 706-709, 1844, 2580, 4689

Castellanos, L. 2846-2847
Castello, J. 4033
Castello, J. D. 3141, 8784
Castillo Morales, A. 6220
Castillo R., C. 4988
Castle, A. 1290
Castle, A. J. 3359, 4189
Castoria, R. 3722
Castrejón Sanguino, A. 7073
Castro, J. L. 5261, 6780
Castro, J. L. de 5262
Castro, N. 4427
Castro, P. R. C. 5193
Castro, S. 2790, 4490, 6007
Castro, V. 1977
Castro Acero, L. 6755
Catalano, L. 1067, 8631-8632
Catanach, J. S. 3280
Cate, J. R. 7231
Cate, R. S. ten 1840
Caten, C. E. 4183, 6532
Catena, G. 3979
Cates, R. G. 6309
Catford, J. G. 1862
Catillo Morales, A. 5916
Catizone, P. 2478
Caudwell, A. 1068, 3856, 6175
Cavalcanti, M. S. B. 1240
Cavallini, G. 3186, 4630
Cavanni, P. 3816, 4204
Cavelier, M. 6624
Cavelier, N. 8317
Cavileer, T. D. 8223
Cayley, G. R. 6820
Cázares, E. 5726
Cazelles, O. 2249, 2258, 2981, 6112, 6826, 6856
Cazenave, A. 8098
Cazin-Bourguignon, P. 8287
Cearnal, K. S. 3274
Ceballos Silva, A. P. 6164
Cedeño, L. 2862
Cedeño M., L. R. 7764
Cehn, J. S. 6563
Celestino, R. C. A. 3027
Çelikel, F. 5419
Cellerino, G. P. 584
Celli, G. 1359
Cen, S. 2028
Ceng, F. B. 7715
Centurion, M. A. P. C. 2798, 5483, 6558
Ceoloni, C. 7465
Cerenius, L. 4101
Cernea, S. 8832
Cerović, S. 8663
Čeřovská, N. 1656, 4760
Cervera, M. T. 4252
Cervone, F. 5019, 5258
César, G. 1006
Cesari, A. 2944
Cesti P. 1817
Çetin, Y. 7782
Cetiner, S. 5510
Cetiner, S. M. 5642
Ceustermans, N. 6853, 8561
Ceynowa, J. 7472
Cha, D. Y. 5604
Chaban, V. S. 3803
Chaban, V. V. 1036
Chaboudez, P. 3207
Chadoeuf, J. 5521, 7902
Chadwick, M. J. 639
Chahal, A. S. 6119
Chahal, S. S. 264, 3627, 3895
Chai, R. Y. 8372
Chai, Y. J. 7161
Chaine, C. 6880
Chakrabarti, N. K. 914
Chakrabarti, S. K. 3734, 3807
Chakrabarty, A. 8465
Chakrabarty, S. K. 2714
Chakraborty, A. 963
Chakraborty, B. N. 4704
Chakraborty, N. K. 1354
Chakraborty, S. 2097
Chakraborty, U. 4704
Chakravarty, P. 2804
Chakravarty, S. 2468
Chakroborti, S. 479
Chalapathy, K. 1109
Chalfant, R. B. 7355
Chalot, M. 8128
Chalutz, E. 3471, 6207, 8651
Chambel, L. 10
Chamberland, H. 4787
Chamberlin, J. R. 3433
Chambers, A. Y. 6767
Chambroy, Y. 4639
Chamel, A. 1172, 4628
Chamma, H. M. C. P. 8348
Chamont, S. 2880
Champawat, R. S. 2519
Chan, H. T., Jr. 510
Chan, K. C. 3320
Chan, Y. S. 2573
Chancellor, T. C. B. 8365
Chand, H. 958, 2462, 3644
Chand, J. N. 6029
Chand, K. 4334
Chand, R. 1596, 2805, 2999, 4654, 7785
Chand, T. 3315, 3627
Chandelier, P. 7938
Chandler, C. K. 1063, 7770
Chandler, J. M. 8038
Chandler, K. F. 7569
Chandler, L. D. 7031, 7355
Chandra, G. 792
Chandra, J. 5449
Chandra, S. 1275, 2269, 4713, 6511-6512, 7503
Chandranath, R. K. 98
Chandrashekar, M. 321, 2770, 7273
Chaney, W. E. 6069
Chang, C. A. 2271, 2776
Chang, C. H. 3231
Chang, C. J. 16, 433, 1618, 3252, 6194
Chang, C. S. 5492
Chang, E. Y. 1132, 5492
Chang, H. S. 763, 4219
Chang, J. R. 1053
Chang, K. F. 4861, 5584
Chang, L. 3789
Chang, L. H. 1711
Chang, L. S. 5414
Chang, M. M. 2131
Chang, M. S. 6845
Chang, R. J. 1553, 5927
Chang, T. H. 7699
Chang, T. T. 1877, 2378, 3425, 6519, 7247
Chang, T. Y. 7161
Chang, W. C. 5593
Channarayappa 4577, 7675
Channer, A. G. 493
Chao, C. T. 5957
Chao, F. 2594
Chao, F. X. 768
Chapa, J. 6224
Chapaĭkina, S. A. 1416
Chapeaux, J. P. 7527
Chapela, I. H. 4805
Chapman, G. W., Jr. 3663
Chapman, P. J. 6427
Chapman, S. 5498
Chappelka, A. H. 2395-2396, 7941
Chappell, J. 4764
Chapple, A. C. 3273, 4094
Chard, J. M. 407
Charest, P. M. 2544
Chari, M. S. 5622
Charifi-Tehrani, A. 7720
Charjan, S. K. U. 3057, 4710
Charles, J. G. 1819
Charthal, S. G. 501
Chartier, R. 3827
Charudattan, R. 4894, 6361
Charvat, I. 1263
Chasan, R. 3040
Chase, A. R. 7183, 7382, 7974
Chasin, D. G. 3256
Chastagner, G. A. 688, 7097-7098
Chastain, T. G. 265, 4449
Chastelliere, M. G. 2233, 7748
Chatrath, M. S. 248
Chatterjee, A. 6402
Chatterjee, A. K. 655, 4921, 4923, 6402
Chatterjee, C. 3005
Chattopadhyay, A. K. 6234
Chattopadhyay, B. K. 750-752
Chattopadhyay, R. 1103
Chattopadhyay, S. B. 8743
Chattopadhyaya, B. K. 755
Chaube, H. S. 959-960, 1198, 1773, 2438, 7175
Chaudhari, S. M. 2326
Chaudhary, K. C. B. 962
Chaudhry, M. H. 5867
Chaudhury, R. G. 3016
Chauhan, H. L. 6999
Chauhan, M. 4981
Chauhan, R. 298
Chauhan, R. K. S. 6388
Chauhan, R. S. 4336
Chauhan, S. 3984, 6546
Chauhan, S. K. 5769
Chauhan, S. S. 479
Chauhan, U. K. 691
Chauhan, V. B. 964, 2811, 8462
Chaukiyal, S. P. 3971
Chaume, J. 3641
Chaumeton, J. P. 5008
Chaundhuri, S. 914
Chaurasia, S. C. 6116
Chauveau, C. 5008
Chauvin, J. E. 6224
Chavan, P. N. 567
Chavant, L. 5008
Chavarriaga, P. 8499
Chaves, G. M. 4735
Cháves, O. 4747
Chávez Hernández, L. F. 7662
Chawla, V. 2656, 5142-5143
Chay, C. 1343
Chaya, K. 74
Chazalet, M. 3500
Che, F. S. 6028
Cheah, L. H. 469, 491, 3864, 7684, 7750, 7791-7792
Checa C., O. E. 2859
Chee, P. 2913
Chee, P. P. 5360
Cheema, G. S. 4976
Cheema, S. S. 3787, 4025, 4593, 4681, 5343, 6119
Cheishvili, A. D. 68
Chekurov, V. M. 817
Chełkowski, J. 1988, 2541, 4222
Chellemi, D. O. 588, 3172, 5426, 7105
Chen, C. C. 2730, 3549, 7498, 8237, 8830
Chen, C. L. 7925, 8157
Chen, C. N. 3010, 3013
Chen, C. T. 3076, 5484
Chen, C. Y. 3232
Chen, D. H. 2210
Chen, F. 3464
Chen, F. H. 8106
Chen, G. D. 7451
Chen, G. G. 1308, 3986
Chen, G. Q. 1078
Chen, H. F. 577
Chen, H. G. 8322
Chen, H. P. 7689
Chen, H. S. 6136, 7700
Chen, H. Y. 1401, 7552
Chen, J. 16, 1336, 1618, 3252, 4394, 8397
Chen, J. A. 923
Chen, J. F. 4141
Chen, J. H. 1299, 1732
Chen, J. L. 3408, 5600
Chen, J. N. 1465
Chen, J. P. 787, 2028, 8335
Chen, J. S. 1300, 1888
Chen, J. Y. 8657
Chen, J. Z. 3870
Chen, L. B. 270, 4502
Chen, L. J. 284
Chen, L. L. 6459
Chen, L. X. 4678
Chen, M. C. 5079
Chen, M. J. 1031, 7498, 8834
Chen, N. H. 4239
Chen, Q. Y. 3870
Chen, R. Z. 5431
Chen, S. 8322
Chen, S. S. 7833-7834
Chen, S. X. 1449
Chen, T. A. 214, 8622
Chen, W. 1907, 2533
Chen, W. C. 2056
Chen, W. L. 1542, 1790, 8045
Chen, W. M. 5242
Chen, W. Y. 3942, 4773, 5250, 5506, 5511, 8730
Chen, X. 1567
Chen, X. F. 3926
Chen, X. M. 1338, 2661, 7462-7463
Chen, X. P. 815
Chen, X. W. 5442, 5602, 7795
Chen, X. Z. 6170
Chen, Y. F 3232
Chen, Y. H. 7689
Chen, Y. Q. 8381
Chen, Y. X. 8656
Chen, Y. Y. 297
Chen, Z. A. 1612
Chen, Z. G. 7406
Chen, Z. J. 7541
Chen, Z. L. 1338, 5818
Chen, Z. M. 3926
Chen, Z. N. 1886
Chen, Z. S. 3870
Chen, Z. W. 1612
Chen, Z. X. 2683
Chenault, K. D. 8214
Cheng, A. S. 8528
Cheng, D. 6319
Cheng, D. S. 6300, 6319
Cheng, J. Z. 2211
Cheng, K. T. 6846
Cheng, M. Y. 5787
Cheng, R. H. 1333
Cheng, S. M. 2083
Cheng, T. I. 3372
Cheng, Y. H. 8528
Cheng, Y. Q. 3657
Chenkin, A. F. 4042
Cheon, J. U. 7960
Cheong, J. J. 653
Cheong, S. R. 395, 3711, 6806
Chérif, M. 1032, 4605, 6898, 8332
Cherkasov, V. A. 4042
Chernyaeva, I. I. 1518, 2848
Cherton, J. C. 4950
Chervyakova, O. N. 7144
Chet, I. 4179, 6135, 6274, 6379, 6382, 6526, 6865, 8090
Chettri, M. K. 5976
Chevalier, G. 6479, 6503
Chevalier, M. 6146
Chevrel, J. 3916
Chevrier, J. C. 3860
Chew Madinaveitia, Y. 7073
Chhabra, M. L. 2529
Chi, G. T. 3420, 8294
Chi, J. Q. 5512
Chi, P. K. 768
Chia, T. F. 2573
Chiang, C. H. 5079
Chiang, J. K. 3930, 5493, 7887
Chiang, K. S. 672
Chiavegato, E. J. 5518
Chib, H. S. 4460, 8388
Chiba, K. 7159
Chiba, M. 79
Chiba, S. 2199
Chiba, T. 5348
Chida, T. 8098
Chidambaram, S. 7517
Chien, C. C. 3019
Chien, J. P. 5902
Chigrin, V. V. 8320
Chikuo, Y. 1649
Childers, C. C. 5441
Chilembwe, E. 6147
Chilosi, G. 4300, 4333
Chilton, W. S. 635, 1766, 2185, 2386, 2426
Chin, H. B. 52
Chin, K. M. 5956
Chin, M. S. 7594

Chinn, N. E. 4299
Chitkara, S. 1560
Chittaranjan, S. 6064
Chiu, R. J. 7498
Chiu, W. F. 4239, 5715, 6477
Chiykowski, L. N. 214, 5109
Chizala, C. T. 493
Chkanikov, D. I. 6648
Chkhikvadze, Sh. G. 1074
Ch'ng, A. L. 6025
Cho, B. H. 2038
Cho, E. K. 5821, 7703
Cho, J. J. 1939, 2584
Cho, M. D. 3825, 4629
Chod, J. 1506, 3790, 7817
Chohan, G. S. 3859
Choi, D. 6049, 8487
Choi, D. R. 3796, 5821, 7335
Choi, D. W. 322
Choi, G. H. 106, 1622, 6226, 8665
Choi, G. S. 5582
Choi, H. S. 8366
Choi, J. K. 1021, 6806
Choi, K. S. 6806, 8476
Choi, S. H. 2750
Choi, W. Y. 75
Choi, Y. E. 322
Choi, Y. M. 901
Chong, J. 242, 846, 873, 4374, 5904, 8338
Choo, Y. D. 322
Chopra, B. L. 4779
Chopra, V. L. 4359
Chou, D. S. 5493
Chou, T. G. 562
Choudhary, A. K. 2178, 3605, 3755, 7507
Chourasia, H. K. 1744
Chovelon, V. 6851
Chowdhry, P. N. 6569
Chowdhury, A. K. 8605
Chowdhury, B. 689
Chowdhury, J. B. 3700-3701
Chowfla, S. C. 4566, 4573-4574, 6884
Chrestin, H. 1142-1143
Chrispeels, M. J. 3774
Christ, B. J. 1884
Christ, E. 2931
Christall, B. 1228
Christen, O. 3508, 7452
Christensen, E. 6678
Christensen, H. 5733
Christensen, K. 5865
Christensen, M. J. 5237
Christensen, N. W. 2843
Christensen, P. 5687, 7235
Christensen, S. 7448
Christian, M. L. 5134
Christiansen, S. K. 5761, 6683
Christie, E. K. 1260
Christie, P. 1261
Christie, R. 187
Christie, R. G. 178
Christies, B. 8806
Christmas, E. P. 3044
Chruściak, E. 5710
Chrzanowska, M. 6810
Chu, R. Y. 5818
Chu, Y. I. 3019, 3216
Chua, G. C. 6025
Chua, N. H. 1943-1944, 2573
Chuba, P. N. 2488
Chubanov, K. D. 4843
Chudek, J. A. 6165
Chudzicki, A. M. 7477
Chuguillanqui, C. 2823
Chulze, S. 3894
Chumakov, A. E. 1521
Chumley, F. G. 909
Chung, B. K. 7699, 7705, 7844, 8683
Chung, G. F. 2315
Chung, G. S. 4410
Chung, H. S. 5221, 8823
Chung, P. H. 5079
Chung, T. Y. 3246
Churakov, B. P. 4828
Church, V. J. 8678
Chuvarleeva, G. V. 2042
Chvyr', N. I. 425
Cia, E. 570, 5518
Ciampi P., L. 2831
Ciccarese, F. 4731, 6084
Çiçek, Y. 1009
Cicero, S. lo 5019
Cícero, S. M. 6013, 8348
Cichy, H. 8344
Cieślińska, M. 5418
Cifuentes, C. 4741, 4747
Cimanowski, J. 5390
Çinar, A. 5111
Ciofalo, G. 4647, 6180
Cipollini, M. L. 1759, 7986
Ciriciofolo, E. 6237
Cirulli, M. 4731, 6955
Cishabayo, D. 946
Citovsky, V. 1947, 2352, 7401
Citti, C. 5112
Ciuffetti, L. M. 5761
Ciurdărescu, G. 1407, 3460, 3583
Civerolo, E. L. 1081, 4677
Cizeau, J. 3234
Clare, R. 274
Claridge, A. W. 1843
Clark, A., III 4127
Clark, C. A. 3740, 6067, 8501
Clark, J. A. 7606
Clark, J. M., Jr. 8429
Clark, J. S. C. 8318
Clark, M. F. 5836
Clark, R. G. 2097, 4870
Clark, W. G. 1659, 2559
Clark, W. S. 8331
Clark-Walker, G. D. 5002
Clarke, D. D. 8854-8856
Clarke, G. G. 7740, 8614
Clarke, L. J. 7082
Clarke, V. A. 5089
Clarkson, J. P. 275, 8263-8264
Clason, D. 8506
Claus, D. 6
Clauzel, J. M. 7387
Clay, K. 6753, 8404
Claydon, N. 3375
Clayton, J. S. 8048
Clayton, M. K. 6009
Clement, J. A. 5009-5010
Clement, L. 6090
Clement, S. L. 7566
Cleveland, T. 3604
Cleveland, T. E. 889
Cliffe, J. M. 1949
Clifford, B. C. 3567-3568
Cline, K. 796
Clingeleffer, P. R. 6176
Cliquet, J. B. 4990
Close, R. C. 4886-4887
Close, S. M. 4915, 7404
Clough, J. M. 8100
Cloutier, D. C. 4531
Cloutier, N. 1878
Clower, M., Jr. 50
Clulow, S. A. 2801
Coates, L. M. 7005
Coates-Beckford, P. L. 5468
Cobb, A. C. 409
Coble, H. D. 6694, 7496
Cobos Suárez, J. M. 596
Cobos Suárez, P. 7913
Cochran, K. D. 7128
Cociu, V. 7749
Cock, A. W. A. M. de 3749
Cock, J. C. J. M. de 3749
Cockbain, A. J. 949, 1498, 5268
Coddington, A. 7617
Coderre, D. 4043
Coe, R. 5789
Coffelt, T. A. 8687
Coffey, M. D. 7008
Coffin, R. S. 8205
Cohen, B. A. 8490
Cohen, J. 2172
Cohen, J. V. 5811
Cohen, L. 2018, 6207, 8651
Cohen, R. 6891, 8601
Cohen, S. 5322
Cohen, Y. 399, 3716, 6102, 6897
Cojocaru, M. 4179
Colbaugh, P. F. 1726-1729
Cole, A. L. J. 5605
Cole, D. L. 4657, 5470
Cole, J. S. 4535
Cole, P. D. 3318
Cole, R. J. 3066, 3907
Coleman, D. C. 1254
Coleman, P. M. 2863
Coleman, R. 7040
Coley-Smith, J. R. 1836
Colicutt, L. M. 8807
Collet, G. F. 6809
Collet, J. M. 3692
Collett, M. 8318
Collier, R. 2208
Collier, R. A. 6818
Colling, C. 7155
Collinge, D. B. 2033, 2038, 4362, 7014, 8327
Collings, A. 5661
Collins, H. M. 3279
Collins, H. P. 4351, 6676
Collins, R. P. 3012
Collins, S. D. 305
Collins-Shepard, M. H. 5980
Collmer, A. 655, 3243, 4921-4922, 5651, 6193, 6391
Colombo, A. 2890
Colozzi Filho, A. 2526
Coltman, P. M. 8097
Colton, R. T. 5659
Colussi, G. 2250
Colyer, P. D. 5234
Coman, N. 5690
Combe, F. 7757
Combellack, J. H. 5683
Combrink, J. C. 6927
Comeau, A. 2634, 4296
Comstock, J. C. 1112, 7045-7046
Conca, G. 5255
Concilio, L. 6040
Condemine, G. 660
Conedera, M. 6223
Conejero, V. 3764, 4268, 8551
Conger, B. V. 341
Conigliaro, G. 4647
Conn, K. E. 5430
Connell, J. H. 513, 8255
Connelly, B. J. 819-820
Conner, A. J. 6946, 7243
Connick, W. J., Jr. 3208
Conning, D. M. 2454
Conradie, E. 1085, 3136, 4798
Conrads-Strauch, J. 6089, 6888
Conrath, U. 4885
Constabel, C. P. 3714
Constable, D. C. 1680
Constable, G. A. 3118
Constantinescu, O. 779, 3409
Conte, E. 4609
Contesini, A. 2987
Conti, G. G. 6010
Continella, G. 2263
Contreras, A. 7636
Contreras, L. 6152
Contreras M., A. 2831
Contu, M. 2550
Conus, M. 2879
Converse, R. H. 7422
Conway, K. E. 929
Cook, A. L. 7415
Cook, D. 665
Cook, D. M. 1206
Cook, D. W. M. 8538
Cook, G. 2273
Cook, M. K. 2993
Cook, N. 2279
Cook, R. 5985
Cook, R. J. 290, 853, 6638, 8286
Cooke, A. L. 1739
Cooke, B. K. 4111, 5881
Cooke, C. J. 5235
Cooke, D. L. 7125
Cooke, L. R. 3718, 6148, 6687, 7642, 8489
Cooksey, D. A. 3038
Cooley, D. R. 4626
Cooley, R. N. 131, 4183
Coombs, D. T. 6031
Cooper, J. I. 5089, 7906, 8231
Cooper, J. L. 8081
Cooper, R. M. 4711, 5467
Cooper, W. 8550
Copel, A. 3808
Copeland, P. J. 1272
Coplin, D. L. 3226, 7192
Copping, L. G. 3214, 5946
Corazza, L. 2238, 4300, 4333, 6634
Corbaz, R. 1043, 2176, 4763, 5842, 6106, 6856
Corbière, R. 982
Corcia, A. di 1821, 5681
Corcuera, L. J. 4
Cordell, C. E. 4127, 5716
Cordell, P. 8051
Cordero, M. J. 5190
Cordo, C. A. 2674, 4346
Coremans-Pelseneer, J. 7021
Corgan, J. 8506
Cork, S. J. 1843
Cornejo, J. 4949
Cornelissen, B. J. C. 973, 4513, 4765, 5116, 5509
Cornelissen, M. 5505
Cornell, C. N. 8405
Corni, A. 6677
Corrado, F. 3058
Corre, J. 6085
Correa, F. 5960
Correa A., M. D. 5698
Correa Victoria, F. 6738
Correll, J. C. 5317, 8518
Cors, F. 7616
Corsini, D. L. 2161
Corte, R. D. 1546
Cortesi, P. 6180
Coscia, L. 3468
Cosio, E. G. 813
Cosowsky, L. 5499
Costa, A. S. 5440
Costa, C. L. 1698
Costa, G. 5703
Costa, J. L. da S. 335
Costa, N. de L. 4977-4978, 4984, 6483
Costantini, A. S. 1247
Costantino, P. 3108
Costentin, E. 1248
Cotes, A. M. 6783
Cother, E. J. 4435
Cothren, J. T. 3616
Cotoras, M. 2537
Cotterill, P. J. 2640, 5176, 5901, 8857
Cotty, P. J. 7342, 8187
Coulibaly, B. S. 5120
Coulson, J. R. 1200, 1767
Coupé, M. 3960
Couper, D. C. 2775
Courteix, M. 6167
Courtois, H. 8804
Cousin, M. T. 4471, 7132
Coussirat, J. C. 4762
Couteau, A. 591
Couteaudier, Y. 120
Coutinho, T. A. 547, 2065
Coutts, R. H. A. 8205
Cover, E. C. 3957-3958
Coviello, R. 6069
Cowan, G. H. 8484
Cowden, N. E. 1729
Cox, B. S. 1937
Cox, R. H. 3318
Cox, S. J. 1932
Cox, T. S. 860
Coyne, D. P. 2126, 7607, 8449-8450
Coz-Gillet, S. le 6576
Craft, C. M. 345
Crahay, J. N. 1725
Craiciu, M. 2309
Craig, J. 1432, 1442
Craig, M. A. 8514
Craig, M. L. 2791, 8149
Cramer, C. L. 5652
Crane, J. 1524
Crane, J. L. 3390
Cravero, M. C. 1859
Crawford, D. L. 8127

Crawford, L. M. 47
Creamer, R. 2710, 6695
Credi, R. 3855, 4265
Creemers, P. 6173
Crépin, J. M. 8071
Crescenzi, A. 2610, 3180
Cresswell, G. C. 5627-5628
Crête, R. 6845
Crişan, A. 6612
Cristani, C. 5124
Cristea, G. 3461
Croche, G. 2780
Cromack, K., Jr. 2535
Cromey, M. G. 5147, 7454
Crook, N. E. 1370
Crookston, R. K. 1272
Crosby, D. G. 1230
Cross, B. 681, 4944
Crossland, N. O. 53
Crosslin, J. M. 1583
Crous, P. 7380
Crous, P. W. 1147, 1151, 1723, 4225, 4792, 5043, 5048, 5535, 6570, 7357, 7359, 7374, 7385, 8760
Crouse, M. L. B. 5676
Crowder, J. 4341
Crowe, F. J. 2843
Crowhurst, R. N. 742, 8154
Crowley, C. 267
Crowley, J. 3925
Crowther, T. C. 3745
Crozier, A. 8735
Crump, K. S. 38
Crute, I. R. 1972, 4039, 4230, 4560, 6083, 8854-8856
Cruyssen, G. van der 5753, 5757
Cruz, A. de la 7698
Cruz, A. R. de la 6063
Cruz, B. 4705
Cruz, C. M. V. 1463, 7558
Cruz, J. de la 2619, 7341
Cruz Fernández, M. 6765
Csengeri, T. 2300
Csép, N. 226, 2608, 3460
Csillag, A. 6566
Csinos, A. S. 3072, 4767
Cuartero Zueco, J. 2907
Cubero, J. 5099
Cubeta, M. A. 1897, 2216
Cudney, D. W. 6069
Cuenca, G. 714
Cuero, R. G. 2325
Cui, G. X. 2723
Cui, W. S. 315
Cui, X. M. 537
Cui, Y. 2056, 3599, 5919
Cui, Y. G. 5250
Cui, Y. H. 3095
Cui, Y. L. 464, 5548, 8155
Cui, Z. 3676
Cui, Z. L. 364
Cuijpers, T. A. M. M. 5663
Culbreath, A. K. 3070, 3072, 3433, 6248, 7031, 8680, 8693, 8722
Cullis, B. R. 1282
Culshaw, F. A. 3511
Culver, J. N. 7404
Čumakov, A. 544
Cummings, G. L. 3271
Cummings, S. 3064
Cummings Carlson, J. 3141
Cummins, J. N. 5407
Cunfer, B. M. 2017, 2701
Cunha, R. da 6907
Cunningham, P. J. 8410
Cunningham, R. A. 8777
Cunningham, R. B. 1843
Cunnington, A. C. 6048
Cupidi, A. 1584
Čupina, T. 2302
Čupka, P. 4014
Cuppels, D. A. 3776
Curragh, H. J. 3378
Curran, C. M. 5179
Curtis, W. R. 7136
Custer, D. M. 1939, 2584
Custers, R. 5063
Cutler, H. G. 3318
Cvikrová, M. 2762
Cvjetković, B. 2945
Cybularz, T. 4874, 5587
Cybulska-Augustyniak, J. 8282
Cymbaluk, T. E. 251
Czajka, W. 1503
Czakó, M. 1205
Czarnecki, E. M. 6644
Czembor, H. J. 3571
Czerwinski, E. J. 586, 1683, 1685
Czosnek, H. 2190
Czyżewska, S. 2852
Da Câmara Machado, A. 1327, 1585, 3434, 3836
Da Câmara Machado, M. L. 1327, 1585, 3434, 3836
Da Cunha, R. 6907
Da Graça, J. V. 3012
Da Silva, N. 3792
Da Silva, S. R. 2066
Da Silva Filho, A. A. 1240
Da Silveira, A. P. 3908, 5526
Daamen, R. A. 236, 3520
Dabkevičius, Z. 6754
Dadwal, V. S. 4821, 6292, 8781
Daebeler, F. 1090
Dafalla, A. E. 7132
Daggett, S. S. 5292
Dahal, G. 217, 1561, 2810, 4411, 6905
Dahiya, J. S. 6233
Dahl, M. 108, 884
Dahlman, D. L. 8406
Dahm, H. 1162, 1846
Dai, F. C. 338
Dai, G. H. 4648
Dai, H. 672
Dai, H. C. 8426
Dai, K. 4634
Dai, Y. S. 5782
Daigle, D. J. 8187
Daimon, T. 3712
Daire, X. 1068
Daivasikamani, S. 546
Dal Piva, C. A. 6774
Dalbir Singh 1447, 1560, 2369-2370, 6253
Dale, J. L. 1640, 4251
Daleo, G. R. 1094
Daljit Kaur 4098
Dalla Valle, E. 5588
Dall'Ara, G. 3089
Dally, E. L. 4265, 8235
Dalmacio, R. D. 7526
Dalmay, T. 1666, 8213
Dalpé, Y. 726, 4172
Dam, B. C. van 1156
Damani, K. 2444
Damann, K. E. 1646
Damian, V. 1375
Damicone, J. P. 1568, 2106, 5225
Damjanović, M. 8556
Damm, E. 1161
D'Amore, R. 2903
Damsteegt, V. D. 1372, 5909
Dandurand, L. M. 4484
Danesh, D. 6805
Danet, J. L. 1348
Dang-Vu, T. T. 5996
Dange, S. R. S. 3756, 7505
Dangl, J. L. 1787, 2446, 3241, 4230, 6599
Danial, D. L. 8295-8296
Daniau, P. 8262
Daniels, J. 2592
Daniels, M. J. 4066, 7197
Danneberg, G. 2513
Dannecker, H. W. 3417
Danthinne, X. 8219
Daodu, M. A. 7511
Daoud, A. S. 3290
Daoud, N. N. 4959-4960
D'Aquilio, M. 2590
Dar, G. M. 8836, 8838
Darakov, O. B. 8246
Darbon, H. 7108
Darby, R. J. 2702
D'Arcy, C. J. 1329, 5133
Dargent, R. 486, 5005
Daroda, L. 5258
Darsow, U. 976
Dart, P. J. 1413, 1419-1421, 3997, 6800
D'Artagnan de Almeida, L. 5262
Darus, A. 1096, 2317-2318
Darvas, J. M. 508
Darvill, A. G. 5258
Das, A. 4913, 4917
Das, A. K. 749, 752, 758
Das, G. C. 3877
Das, M. K. 4323, 7468
Das, N. D. 5479
Das, O. P. 300
Das, P. 5494
Das, S. 2574
Das, S. B. 2134
Das Gupta, B. 857
Dasgupta, A. 8465
Dasgupta, I. 900, 1341, 1949, 4411
Dasgupta, M. K. 918, 3473
Dashiell, K. E. 967, 6769
Dashora, P. K. 7630
Dashwood, E. P. 6815
Dassanayake, E. M. 511
Dässler, H. G. 7956
Datar, V. V. 6126
Date, H. 8603
Datnoff, L. 1024
Datnoff, L. E. 903, 1459, 4434, 4565
Daub, M. E. 2346, 5739
Daubeny, H. 6166
Daubert, S. 3452
Daubèze, A. M. 6880
D'Aulerio, A. Z. 5588
Daurade, M. H. 6307
Daurade-Le Vagueresse, M. H. 6307
Daus, A. 8651
Daus, E. G. 3803
D'Auzac, J. D 3960
Davey, A. G. 1413, 1419-1420
Davey, M. R. 12
David, C. 6410
Davidchik, L. Ya. 1502
Davidovich, L. A. 8339
Davidse, L. C. 977, 4524, 5693
Davidson, C. G. 8807
Davidson, H. 3808
Davidson, J. I., Jr. 3907
Davidson, N. A. 7229
Davidson, R. M. 1175
Davidson, R. M., Jr. 404, 463, 583
Davies, C. 4244
Davies, F. T., Jr. 705
Davies, J. M. L. 8517
Davies, J. W. 900, 1341, 1949, 5816, 6585
Davies, M. J. 1648
Davies, W. P. 5667
Davino, M. 2891-2892
Davis, C. A. 5014
Davis, C. N. 586
Davis, D. A. 8740
Davis, D. B. 1725
Davis, D. D. 1696
Davis, D. P. 8692
Davis, F. M. 1810
Davis, H. 869, 3892
Davis, J. N. 7863
Davis, J. R. 2161, 4286, 4528
Davis, K. R. 2583
Davis, M. A. 4308, 6662
Davis, R. B. 5601
Davis, R. D. 4463, 6759
Davis, R. E. 214, 1955, 3457, 4265, 5109, 8233, 8235
Davis, R. I. 6802
Davis, R. M. 6069, 6090, 7154
Davison, A. D. 1722
Davydova, Yu. V. 5291
Dawson, M. 4812
Dawson, R. F. 4786
Dawson, W. O. 3934, 7404, 8192
Dawson-Andoh, B. E. 3166, 3991
Day, A. G. 5500, 7881
Day, A. W. 2695, 4189
Day, J. 6592
Dayal, B. R. 7360
Dayan, M. P. 4890
Daykin, M. E. 7773
De, B. K. 8743
De, D. K. 7900
De, T. K. 753, 755
De Almeida, L. C. C. 3929
De Almeida, O. C. 3929, 6907
De Armas, G. 2898
De Ávila, A. C. 1178, 5076
De Barros, N. F. 7282
De Biaggi, M. 3090
De Blas, C. 2618, 2790, 4490, 6007, 8573
De Bock, T. S. M. 3917
De Boer, H. G. 1113
De Boer, R. F. 3510, 5880
De Cal, A. 2242, 3847, 7759
De Camargo, A. P. 5518
De Castro, J. L. 5262
De Cock, A. W. A. M. 3749
De Cock, J. C. J. M. 3749
De Doyle, M. M. R. 295
De Feyter, R. 4782, 5657
De Figueiredo, J. M. 2339, 3929
De Figueroa, L. 502
De Franqueville, H. 3062
De Graaff, L. H. 8158
De Granda, E. 1701
De Greeff, R. 618
De Gruyter, J. 1752
De Guénin M. C. 3898
De Guzman, E. D. 2372
De Haan, P. 1178, 4759, 5065, 5076, 5796
De Jager, E. S. 2279
De Jong, M. D. 8849
De Jong, W. 210
De Kathen, A. 2800
De Kock, S. L. 466
De Kogel, W. J. 7138
De la Cruz, A. R. 6063
De la Cruz, J. 2619, 7341
De la Osa, J. 3868
De la Rocque, B. 3593
De la Torre, R. 6164
De Langhe, E. 4659
De León, C. 5186
De Leon, C. 7495
De Ley, J. 7198
De Lorenzo, G. 5019, 5258
De Luca, V. 1878
De Lucena Costa, N. 4984, 6483
De Marcillac, G. 8225
De Meillon, S. 1750
De Mélo, J. F. 1240
De Melo, I. S. 438
De Milliano, W. A. J. 1434, 1444, 2720, 3505, 3607-3608, 5932
De Milliano W. A. J. 4404
De Moraes E. Souza, M. A. 1240
De Nardo, E. A. B. 5440
De Nazareno, N. R. X. 2715
De Negri, J. D. 6213
De Oliveira Pita, F. A. 2367
De Oliveira Resende, R. 5076
De Otazo López, J. G. 2932
De Paoli, G. 2500
De Paoli, M. 2994
De Ramallo, N. E. V. 7157
De Resende, M. L. V. 2320
De Ron, A. M. 8863
De Rueda Salguero, J. A. O. 2501
De Ruffray, P. 8030
De Saint Blanquat, A. 3960
De Santana, C. J. L. 2320
De Sarmento Gadelha, R. S. 3027
De Schaetzen, N. 2942, 6917
De Schutter, J. M. 973
De Selincourt, K. 7993
De Sequeira, O. A. 1071
De Souza, T. M. W. 4004-4005

De Souza, W. 219
De Souza-Dias, J. A. C. 8204
De Souza Filho, B. F. 1528
De Stradis, A. 2969, 3770
De Taffin, G. 3062
De Valerio, J. T. 4894
De Vallavieille-Pope, C. 2037, 2693, 5896
De Vicente, M. C. 3777
De Villiers, E. E. 2279
De Vries, G. A 1861
De Vries, J. N. 2858, 5304
De Vries, P. J. 6927
De Vries, T. 2858
De Waard, M. A. 1815, 2463, 3298, 4105, 5693, 5756, 5759
De Wit, P. J. G. M. 437, 811, 2195, 4585, 5331, 6096, 7688
De Zoeten, G. A. 3436
Deacon, J. W. 100, 1876, 5131, 5882, 7351
Deacon, V. E. 5444
Deacutefago, G. 666
Deahl, K. L. 6051, 8490
Dean, J. F. D. 4771
Dean, R. A. 7713, 8377
Dean, T. J. 3006
Deans, S. G. 1833
Dearne, G. A. 5181, 6630
Deas, A. H. B. 8085
Deb, I. 7980
Deb, P. R. 1487
Debaud, J. C. 710
Debener, T. 1787, 4230
Debieu, D. 6529
Debons, J. 6147
Debus, R. 1171
Declert, C. 1143
Decosterd, L. A. 8120
Dědič, P. 974, 2886
Dedio, W. 1629
Deegen, P. 6318
DeEll, J. R. 5392
Deer, H. M. 23
Défago, G. 5699, 7877
Defoer, T. 7633
Defrance, H. 7757
Degtyareva, S. P. 1518
Dehghan, M. 6805
Dehmer, K. 2821
Dehne, H. W. 712, 4161
Deighton, N. 5298
Deĭkov, K. V. 4358
Deising, H. 107, 384, 948, 2112, 2116
Deka, H. K. 1274
Deka, P. 2414
Deka, P. C. 4818
Dekens, R. G. 3503
Dekhkanova, Z. N. 1534
Dekker, E. L. 1937, 7966
Dekker, J. 3225
Del Amo, F. 4206
Del Campillo, E. 1497
Del Dot, T. 4061
Del Prado, I. C. 5916
Del Río, L. 3687
Del Río, L. A. 4147
Del Río, L. E. 301
Del Rivero, J. M. 7800
Del Zan, F. 3737
Delachiave, M. E. A. 2773
Delatour, C. 603, 781, 2382-2383
Delay, D. 3234
Delbos, R. P. 3938-3939
Delen, N. 5831, 7674
Delepelaire, P. 1211
Delfosse, E. S. 2429
Delfosse, P. 7651
Delgadillo Sanchez, F. 6890
Delgado, A. 3093
Delgado, M. 7845
Delgado, P. O. 2254
Delgado Izquierdo, I. 6123, 8579
Delibašić, G. 3834
Delibes, A. 5164
Della Torre, G. 6944
Della Vecchia, P. T. 5345
Dellaglio, F. 3468
Dellavalle Fedi, I. 4841
Delmotte, F. M. 3234
Delogu, G. 3582
Delon, R. 1670, 4762, 7063
Delorme, L. 1164
Delwaulle, J. C. 3325
Demangeat, G. 5088
DeMars, S. J. 3600
Demateo, A. 2254
Demir, G. 281
Demler, S. A. 3436
Demopoulos, V. P. 5758
Demski, J. W. 3433, 8680
Demuner, N. L. 3886
DeMuth, S. P. 6051
Den Braber, K. 7203
Den Dulk-Ras, A. 7189
Denes, A. S. 1474
Deng, C. S. 8394
Deng, D. L. 5443
Deng, G. R. 3017
Deng, G. S. 7559
Deng, L. Q. 577
Deng, S. 1953
Deng, T. C. 3076, 6070, 6178
Deng, Z. N. 6991
Denis-Arrue, R. 5427
Denise, F. 2235
Denissen, C. J. M. 2001
Denman, S. 1353, 7578
Denmark, Danish Institute of Plant and Soil Science 6370
Denner, F. D. N. 7649
Dennis, J. 6015
Dennis, J. J. C. 7875
Denny, T. 5510, 5642
Dent, D. R. 1793
Deom, C. M. 1662
Deom, E. 4143
D'Eon, S. P. 3130
Deordiev, I. T. 2448
Depestre, T. 2910
Dephoff, C. M. 3873
DePuit, E. J. 3337
Der Valk, H. van 7203
Deraje Tadesse 8275
D'Ercole, N. 3186, 3382, 5340, 8535-8536
Deren, C. W. 903
Derevyagina, M. K. 2839
Derks, A. F. L. M. 184, 200, 7966, 8816
Derks, J. H. J. 3244
Dernoeden, P. H. 931, 1725
Derr, M. A. 4898
Derrick, K. 6203
Derrick, P. M. 391, 2578
Desai, B. G. 3756
Desai, S. 8682
Desamero, N. V. 5379
Désaulniers, N. L. 4227
Desbaillet, C. 2249
Deshmukh, M. R. 1106, 1108
Deshmukh, P. B. 8700
Deshmukh, R. K. 7899
Deshmukh, R. N. 1022
Deshmukh, S. D. 2905
Deshpande, A. L. 7978
Desiderio, A. 5258
Desjardins, A. E. 102, 109, 3728, 8156
Desnos, T. 2793
Desprez, M. 6261, 8703
Desprez-Loustau, M. L. 2382-2383
Despujols, J. 4563-4564
Dessaux, Y. 3235, 6410
Dessens, J. T. 195, 7623
Desta, R. 829
Destéfano-Beltrán, L. 387, 5510, 5642
Desvignes, J. C. 1051
Dethe, M. D. 2253
Detry, J. F. 7527
Deubel, R. 539
Devadath, S. 922
Devaiah, B. M. 4415, 5213, 6720
Devaki, N. S. 3941, 4770
Devakumar, C. 6463
DeVay, J. E. 3117, 4208, 4215, 4525, 4903, 5835
Devenney, P. 2444
Deverchere, J. 4701
Devergne, J. C. 7065
Devi, M. 4818
Devi, R. 2406
Devi, T. P. 5281
Devignes-Morch, M. D. 793
Devlin, W. S. 8251
DeVries, R. M. 8522
Dewar, A. M. 8705-8706
Dewar, K. 6297
Dewey, F. M. 823, 1460, 5848
Dewey, J. E. 54
Dexheimer, J. 93, 2495, 5700
Dey, B. K. 2479
Dey, D. K. 8744
Dey, T. K. 4405
Dhaliwal, G. S. 6602, 7525
Dhaliwal, H. S. 887, 3533, 5151, 5854, 5857
Dhaliwal, M. S. 2895
Dhanbir Singh 7650, 8458
Dhar, A. K. 1754
Dhar, T. K. 6024
Dharam Vir 1450, 2074, 5212, 7534
Dharmadhikar, M. S. 3977
Dharmatti, P. R. 6824
Dhawan, P. 5287, 5597
Dhillion, S. S. 1852, 6499
Dhillon, B. S. 5450
Dhillon, H. S. 4100
Dhillon, N. P. S. 4595
Dhillon, S. S. 8513
Dhindsa, H. S. 3627
Dhyani, A. P. 999, 1558, 3783, 7702
Di Candido, M. 3778
Di Candilo, M. 4575
Di Carmine, D. 8530
Di Corcia, A. 1821, 5681
Di Giulio, R. T. 1243
Di Lenna, P. 8524
Di Lonardo, V. 3167
Di Marco, S. 7758
Di Menna, M. E. 2088, 3499, 5232
Di Pietro, A. 4176, 5000-5001
Di Prinzio, A. P. 4946
Di San Lio, G. M. 6227
Di Terlizzi, B. 2237, 4689, 7012
Di Tonno, A. 2994, 5121
Dianese, J. C. 1698, 1924, 5045
Diangana, D. 3325
Dias, J. S. 8516
Diatloff, A. 5458-5459, 7625
Diatta, F. 6099
Diaz, G. 1851, 2523, 6484
Diaz, I. 3106-3107
Díaz, M. E. G. 886
Díaz, R. 4195
Díaz Carrasco, H. 7586
Díaz Cruz, L. E. 4668
Díaz Franco, A. 1431
Díaz Plaza, R. 6775, 6782
Díaz-Ruíz, J. R. 5099, 5326, 7698
Díaz-Valasis, M. 6804, 6808, 6812
Dick, M. W. 766, 5789
Dickas, A. 7278
Dickens, J. S. W. 3920
Dickinson, M. 8541
Dickinson, M. J. 6864, 7679
Dickler, E. 2927
Dickman, A. 1778
Dickman, M. B. 3383, 6521, 7338, 7349
Dickson, M. H. 6849
Didelot, D. 3760, 6167
Dieckmann, J. 6260
Diederichs, C. 1850, 4975
Diehl, S. V. 2288-2289, 4691
Diekmann, M. 2085
Dienelt, M. M. 8224
Diener, T. O. 1951, 2575
Diers, B. W. 3675
Dietrich, A. 7931
Dietrich, B. 7861
Dietzgen, R. G. 4251
Digat, B. 3481
Dighton, J. 1254, 3327
Digiaro, M. 2237, 4689, 7012
Dijk, H. F. G. van 7113
Dijkstra, J. 190, 205
Dijst, G. 620
Dik, A. J. 2016
Dilbar, A. 4266
Dilip Monga 3709
Dillard, H. R. 409, 6616
Dimarco, P. 1094
Dimasi, S. 442
Dimou, D. 490
Dimova, Ts. 5770
Dinakaran, D. 7841
Dinant, S. 802, 1004
Dincher, S. 4757
Dincher, S. S. 3932
Dinesen, I. G. 5687, 7235
Dinesh-Kumar, S. P. 8200
Ding, B. 4755
Ding, K. J. 2083
Ding, S. W. 7408, 8839
Ding, X. 2067
Ding, X. S. 949
Dinić, J. 3834
Dion, P. 2822, 4914
Dios, G. 4947
Diouri, S. 1764
Dipanwita Bhattacharya 5023
Dirven-van Breemen, E. M. 7208
Disthaporn, S. 5943
Dixon, A. G. O. 8472
Dixon, G. R. 8514
Dixon, M. S. 7679
Dixon, R. A. 2606, 4456, 6352, 7608, 8245
Dixon, R. K. 4126, 7291
Djakamihardja, S. 2507
Djennane, A. 7117
Dmitriev, A. P. 2861
Do, E. S. 7843
Do, T. H. 7703
Do Nascimento, S. C. 1240
Do Valle Ribeiro, M. A. M. 8412
Dobinson, K. F. 329, 3626
Dobronski Arcos, J. E. 5890
Dobson, H. M. 8054
Dobson, S. 2208
Dod, V. N. 6114
Dodan, D. S. 3399, 3644, 4582
Dodd, J. C. 6617
Dodds, J. A. 6592, 8207
Dodds, J. H. 387
Doering-Saad, C. 3735
Doerner, P. W. 4766
Does, C. van der 8720
Doga, G. Kh. 535
Dogar, M. A. 3115
Dogo, M. 6411
Dohmen, G. P. 8108
Doignon, F. 81
Doke, N. 4285, 6949, 7777, 8559
Dolgova, E. M. 1095
Dolja, V. V. 2576, 3446
Dollet, M. 3058, 4696
Dolya, V. V. 3088
Domański, S. 4221
Domier, L. L. 1329, 6637
Dominguez, H. 1212
Donald, P. A. 7592
Donaldson, S. P. 1876, 7351
Donati, D. 6139
Donaubauer, E. 7094
Donegan, K. 5644
Donelan, A. F. 3082
Doner, L. W. 3342
Dong, C. O. 4629
Dong, C. Z. 6118
Dong, J. G. 3546
Dong, J. Y. 8304
Dong, Q. P. 4936
Dong, Z. P. 2723
Donigian, A. S., Jr. 1803
Donini, P. 7465
Donnelly, P. K. 2535

Dontsov, A. E. 4425
Doong, T. J. 5079
Doorn, W. G. van 1735
Doose, G. M. 55
Dopuđa, M. 6656
Doraiswamy, S. 4024, 6764
Doran, C. C. 1783
Dordea, M. 5690
Dörfler, U. 7221
Dori, S. 2268
Dorner, J. W. 3066, 3907
Dorofeeva, L. L. 2611
Dorokhov, B. A. 260
Dorokhov, Y. L. 794
Doroshenko, N. D. 425
Dorozhkin, N. A. 4511
Dorozkin, N. 397
Dorsaz, L. 2176
Dorsch, M. 4061
Dorschner, K. P. 7231
Dorschner, K. W. 7231
Dorworth, C. 4033
Dorworth, C. E. 3144, 5612
Dos Santos, H. P. 5846
Dos Santos, R. de F. A. 8578
Dosba, F. 2235, 3837
Doshi, A. 3073, 4877
Dosskey, M. G. 699
Dostaler, D. 7577
Dot, T. del 4061
Doubleday, O. 2936
Doublés, J. C. 1758
Doudrick, R. L. 6310
Douds, D. D. 3342, 5731
Dougherty, W. G. 5272
Doussinault, G. 5164, 7466
Douville, Y. 2765
D'Ovidio, R. 2120
Dovrtěl, J. 1399, 2643
Dowell, F. E. 3907
Dowler, C. C. 7355
Dowler, W. M. 4468, 6240
Downer, R. A. 3273
Doyel, K. J. 8076
Doyle, M. F. 725
Doyle, M. M. R. de 295
Draber, W. 4938
Draganić, M. 2712, 5914, 6241
Dragar, C. 5003
Drahos, D. 853
Draper, J. 4277
Drechsel, H. 3357
Dreher, T. W. 5092, 6844
Drenth, A. 1283, 8490
Drinkwater, L. E. 7682
Droby, S. 3471, 6207, 8651
Dron, M. 2793
Drouillard, D. L. 2516
Drovandi, F. 3126
Druganov, A. G. 817
Drugeon, G. 793
Drummond, A. M. 7213
Druskel'dinov, S. B. 3588
Dry, I. B. 3438
Drygin, Y. F. 794
Drzakeli, E. Sh. 500
D'Souza, M. C. 2221
Du, D. Z. 2295
Du, L. C. 8121, 8382
Duan, C. H. 2063, 6219, 6545, 6943
Duan, J. 417
Duan, X. R. 3353
Duan, Y. J. 8374
Duarte, A. 7202
Duarte, V. 8501
Dube, H. C. 6508, 8034
Dubey, A. 7441
Dubey, N. K. 1834, 4504, 8471
Dubey, R. C. 2006
Dubey, S. C. 5475
Dubin, H. J. 1985
Dubinchuk, Yu. N. 3492
Dubos, B. 3860, 5828, 6181, 6184
Dubovitskaya, L. K. 2108
Dubs, M. C. 808-809
Duckett, J. G. 728, 1866-1867
Duckworth, C. A. 3274
Ducreux, G. 5295
Dudienas, C. 5262, 5518, 6772, 6778
Dudits, D. 1505
Dudka, E. L. 881
Dudler, R. 2671, 5974, 8393
Dudley, M. W. 1208
Duezek, L. J. 272
Duff, J. D. 5031
Duffus, J. E. 6843
Dufraine, A. 2982
Dugan, F. M. 637, 1577
Dugan, K. J. 864
Duin, W. E. van 4991
Duineveld, T. 618
Duka, A. I. 8704
Dulić-Marković, I. 3833, 6140, 6157, 6163
Dulk-Ras, A. den. 7189
Dullahide, S. R. 1014
Dumas, E. 8140
Dumas, M. 4033
Dumas, M. T. 4791
Dumas-Gaudot, E. 723, 1295
Dumitraş, L. 7177
Dumont, R. 4534
Dumroese, R. K. 5554
Duñabeitia, M. K. 2502
Dunbar, K. B. 7027
Duncan, C. M. 3610
Duncan, E. J. 4499
Duncan, J. M. 4218, 5011, 6815, 7763
Duncan, L. W. 7798
Duncan, N. W. 2993
Duncan, R. R. 3610, 8092
Dunez, J. 1056, 3451, 3938-3939, 5059, 5401, 6589, 8225
Dunkle, L. D. 3621-3622, 5924
Dunn, P. H. 594
Dunne, B. 129
Dunne, R. 1358
Dunsmore, K. M. 5847
Duong, H. N. 2049, 3606
Dupin, A. 7411
Dupré, C. 6479
Duran-Vila, N. 2984
Durand, D. P. 4464
Durecu, S. 7429
Dureja, P. 4939, 5689
Đurić, M. 2052
Đurić, S. 6158
Durrant, M. J. 3091
Durrieu, G. 8175
Dušková, E. 4002
Dutang, M. 8075
Dutertre, M. 2079
Dutko, S. M. 69
Dutky, E. 7958
Dutrannoy, F. 3837
Dutta, P. K. 3193
Duttamajumder, S. K. 1647, 3911
Dutton, M. F. 7506, 8352
Duvauchelle, S. 1510
Duveiller, E. 828, 2025
Duvenhage, J. A. 2276, 2278, 2283-2284
Duvick, J. P. 4377
Duymelinck, C. 8027
Dvoryankin, E. A. 838
Dwelle, R. B. 3736
Dwivedi, A. 1864
Dwivedi, B. S. 3658
Dwivedi, R. 80, 1814, 1816
Dwivedi, R. K. 77
Dwivedi, R. P. 5475
Dwivedi, R. S. 289, 1288, 1411, 1485, 2045-2046, 3319, 6790
Dwivedi, S. K. 747, 1411, 1485, 1616-1617, 4504, 5454, 8471
Dworkin, M. 1781
D'yachenko, L. F. 3236
D'yakov, A. V. 3086
D'yakov, Yu. T. 2839, 5742
Dyatlov, V. A. 6579
Dybvig, K. 1954
Dyck, P. L. 1994, 2653, 5858, 8290
Dyer, A. T. 8490
Dyer, H. C. 1882
Dyer, P. S. 3364, 5018
Dyke, C. G. van 1766, 5620-5621
Dymchenko, A. M. 259
Dymova, A. P. 2108
Dzhalagoniya, K. T. 4686
Dzhamalov, G. 3945
Dzhavakhia, V. G. 3954
Dzhavakhiya, V. G. 334, 4425
Dzhemilev, U. M. 3514
Dzhuraeva, Sh. 3945
Dzianott, A. M. 5103, 8217
Dziewońska, M. 6036
Dzimistarishvili, N. B. 5108
Dzirkale, L. 6132
Eagar, C. 7942
Eagling, D. R. 342, 7565
Ealing, J. 7329
Eamus, D. 3569
Eapen, J. T. 7025
Earnshaw, D. M. 5477
Eason, W. R. 2488
Easter, M. J. 7904
Easton, G. D. 3726
Eastop, S. 900
Eastwood, R. F. 6666
Eaves, D. M. 3423
Ebel, B. 1171
Ebel, J. 813
Ebrahim-Nesbat, F. 4817, 7096
Ebright, R. H. 4936
Echandi, E. 1897, 2216, 5341
Echarte, J. 4361
Echávez-Badel, R. 2795
Echeverri, C. J. 1690
Ecker, J. R. 1201
Eckert, J. W. 6989
Eckhardt, W. 4103
Eckwall, E. C. 7654
Edagawa, Y. 8599
Edathil, T. T. 2368
Eddy, P. 1328
Edelman, M. 2540
Eden-Green, S. J. 2417
Eder, J. 2762
Edington, B. V. 7396
Edland, T. 2947
Edreva, A. 4762
Edwards, D. 29, 6443
Edwards, M. J. 43
Edwards, M. L. 5070, 5089, 7906
Edwards, R. 6352
Edwards, S. G. 6079
Edwardson, J. R. 160, 178, 181, 187
Eeckhaoudt, S. 4964
Eeden, S. J. van 6927
Eeuwijk, F. A. van 5488
Eged, S. 2687
Egel, D. S. 1607
Egen, M. 4519
Egger, K. N. 6502
Egli, S. 3332, 5706, 5709
Egli, T. A. 3288
Egorov, A. B. 4122
Eguchi, H. 8258
Eguchi, Y. 7255
Ehara, Y. 4761, 6590, 7398, 8157, 8160
Ehinmidu, J. O. 6068
Ehle, H. 6419
Ehrenshaft, M. 1484, 8428
Ehret, D. L. 2915
Ehret, G. R. 8623
Ehrlich, M. 1665
Ehteshami, M. 23
Eichenlaub, R. 1015, 2900
Eichholtz, D. A. 1659
Eichhorn, J. 1170, 1718
Eichhorn, K. W. 3853, 5680
Eicker, A. 403, 630, 1185, 1750
Éĭges, N. S. 8278
Eijk, C. van 4871
Éĭkhe, M. M. 1580
Eilrich, G. L. 72
Einhorn, G. 745
Eiroa, M. N. U. 6697
Eisenhauer, D. R. 4801, 7914
Eissenstat, D. M. 2516, 3006
Ekbom, B. 1380
Ekpo, E. J. A. 2148
Ekramoddoullah, A. K. M. 3144, 6296
Ekström, U. 1381
Ekundayo, C. A. 4784
El-Abyad, M. S. 531, 2336
El-Daoudi, Y. H. 2652, 5139
El-Deeb, A. A. 7032
El-Din, S. A. B. 6892-6893
El-Doweny, H. H. 6892-6893
El-Ghamry, M. 2026, 2029, 2041
El-Gholl, N. E. 773, 7382
El-Guindy, M. A. 3946
El-Hadi, A. H. A. 3851
El-Hafez, A. A. A. 6892-6893
El-Hamawi, M. H. 3851
El-Hassan, S. M. 972
El-Hyatemy, Y. Y. 7603
El-Jack, A. E. 7725
El-Kasim, A. 2327
El-Kassemi, K. 4298
El-Mekki, M. M. D. 7725
El-Naggar, S. M. 4892
El-Nahhal, Y. Z. 8117
El-Nashaar, H. M. 6827
El-Nashar, F. 2041
El-Nasher, F. 2026
El-Refaei, M. I. 2105
El-Refai, I. M. 6277
El-Sayed, A. 6639
El-Sayed, A. A. 6699
El-Sayed, F. M. B. 6628
El-Sayed, M. A. 5022
El-Sayed, M. B. F. 6627, 6629
El-Sebae, A. H. 8117
El-Shanawany, A. A. 1871
El-Sharouny, H. M. M. 1871
El-Yamani, M. 3495, 4298
El-Yazid, E. B. A. 6957
El-Zayat, M. M. 6627-6629
El-Zik, K. M. 1139
Elabidine, F. Z. 3579
Elad, Y. 2407, 2860, 3170, 3470, 3484, 3995, 5827, 5833, 6135, 6329
Elango, F. 4720, 7000
Elangovan, R. 1076, 8660
Elder, M. 5811
Eldridge, K. G. 6306
Elena, K. 5832
Elena, S. F. 5394
Elgersma, D. M. 5332
Elghazali, B. 487
Elian, M. I. 7032
Elias, K. S. 2899
Elicio, V. 2580
Ellerbrock, L. A. 2863
Ellingboe, A. H. 5957
Elliott, C. L. 421
Elliott, M. L. 4283, 4434, 4860, 5982, 6334
Elliott, M. S. 8681
Elliott, V. J. 7029
Ellis, B. E. 3773
Ellis, J. G. 3959
Ellis, J. R. 716
Ellis, J. S. 8245
Ellis, M. A. 477, 7128, 7772
Ellis, P. 8479
Ellis, P. J. 2423
Ellis, S. W. 5759
Ellison, C. A. 5613
Ellison, P. J. 1282, 5412
Ellsbury, M. M. 348
Elmer, J. S. 799
Elmer, P. A. G. 3835, 7747
Elmer, W. H. 8527, 8529, 8534
Elmqvist, T. 631, 5607
Elsey, R. F. 1050
Elstner, E. F. 4816, 4846
Elumalai, R. P. 1791
Elwakil, M. A. 5614
Elzen, P. J. M. van den 973, 4765, 5509
Emans, H. J. B. 7208
Emechebe, A. M. 2071, 2147
Emerich, D. W. 6773
Emery, A. 8740
Emmelo, J. van 5505, 8219
Emmett, R. W. 482, 6965
Encheva, V. 1627

Endo, N. 2749
Endo, S. 6730
Endo, T. 7250
Enge, R. 222
Engelbrecht, M. C. 7889
Engelke, M. C. 1728
Engler, R. 40
English, H. 6142, 6912
English, J. 8541
Engström, K. 3379
Enisz, J. 3289
Enno, T. 2659
Ennos, R. A. 1712, 8666
Enrietti, S. 617
Entry, J. A. 2535
Entwistle, A. R. 3744
Enyedi, A. J. 233
Epard, S. 2258
Eparvier, A. 120
Epinat, C. 6133
Eppler, A. 7982-7983
Epton, H. A. S. 610, 3751, 4553, 4859, 6078
Erasian, F. 406
Ercoli, L. 7465
Erdelský, K. 4014
Erdos, G. 6488
Eremenko, P. S. 389
Erić, Ž. 7133
Ericson, L. 631, 3988, 7164
Erinle, I. D. 7038
Erland, S. 700
Erlingson, M. 7644
Ermolaeva, N. I. 6607
Erny, C. 5501
Erokhina, S. A. 882
Érsek, T. 3720, 7315
Ershad, D. 1706, 1734, 1748, 6550
Ertan, Ü. 5419
Ertunç, F. 173, 366, 4559, 4597, 5362
Erwin, D. C. 3362
Esahak Ali 5023
Escobar R., R. 7085
Escoubes, M. 1172
Escuadra, M. D. 6404
Esele, J. P. 7512
Esengulova, B. Zh. 729
Eser, D. 2137
Eshinu, O. 4422
Espiau, C. 3207
Espino, R. R. C. 5433
Espino, T. M. 4683, 5433
Espinosa, J. 2910
Espinosa-García, F. J. 5555
Espinoza, A. M. 806
Espinoza-Victoria, D. 4157-4158
Espitia R., E. 5975
Espósito de Rodríguez, S. M. 1060
Esquerré-Tugayé, M. T. 1491, 5465, 6613
Esselen, F. 6209
Essenberg, M. 3957-3958, 4781
Estelitta, S. 3866
Esterio, M. A. 6188
Estes, C. 3064
Esteva, J. 5355, 5366, 7707, 7711, 8587, 8590
Estey, R. H. 5636
Estler, M. 3270
Estrada, A. 6617
Estragnat, A. 3049
Etchevers Barra, J. D. 4980
Etessami, P. 795
Etienne, J. 3871
Eto, H. 1544
Eto, M. 3292
Etoh, T. 6845
Etten, J. L. van 1751
Eun, M. Y. 3247
Eurola, S. 693
European and Mediterranean Plant Protection Organization 1191-1192, 4919, 7195, 7238, 7266-7271, 7274-7277, 7615, 7693-7694, 7761, 7894, 7949, 8037
Evans, C. K. 833
Evans, D. A. 2457
Evans, H. C. 2430, 5613, 5668
Evans, I. R. 2631
Evans, K. 3476
Evans, K. J. 452
Evans, N. 867
Evans, R. L. 1092, 8672
Evans, T. A. 8522
Evenor, D. 2183
Evensen, K. B. 5560
Evers, G. 1606, 3867
Eversmeyer, M. G. 1384
Ěverstova, U. K. 1521
Everts, K. L. 2012, 7453
Evidente, A. 1173, 3248, 5025
Evseev, E. I. 4309
Evseeva, R. P. 3502
Ewaldz, T. 543
Ewers, F. W. 5414
Ewijk, P. H. van 7232
Ewing, D. F. 7003
Exconde, S. B. 4683, 5433
Expert, D. 1179
Eyal, Z. 2018, 4340, 6670
Eyango, S. A. 418
Eynde, R. van den 7251
Ezzahiri, B. 1764
Fa, Y. S. 5250
Fabbri, A. A. 3722
Fabellar, N. 5948
Faber, J. H. 5711
Fabi, A. 6197
Fabián, J. 7196
Fabre, J. 3760
Fabregue, C. 3050
Faccioli, G. 3683, 4575
Facco, M. J. 2735
Fadeeva, L. M. 4617
Faeti, V. 4575
Fagerstedt, K. V. 1258
Faggioli, F. 4645
Fagioli, S. L. G. 6267
Fahmy, F. G. 2327
Fait, A. 8086
Falconi, C. 1970
Falconnet, G. 91
Falk, B. 187
Falk, B. W. 1331, 4256, 5087
Fallik, E. 3762
Falloon, P. G. 431, 8538
Fallot, J. 486-487
Famurewa, O. 2340
Fan, H. L. 7529
Fan, J. S. 8106
Fan, M. Z. 8577
Fan, S. 622
Fan, T. S. 8074
Fan, Z. F. 911, 2077
Fancelli, M. I. 412, 3384
Fanelli, C. 3595, 3722, 4271
Fang, C. T. 8091
Fang, D. C. 1533
Fang, G. C. 3370
Fang, G. W. 6588
Fang, H. C. 4715
Fang, H. S. 562-563
Fang, M. 284
Fang, T. S. 6315
Fang, X. J. 467
Fang, X. P. 8668
Fang, Y. M. 5446
Fang, Z. D. 3733, 4350, 6060, 7892, 8176, 8321, 8485, 8503
Fannah, S. J. 5954
Fannin, F. F. 8406
Fanta, J. 5527
Fantin, G. M. 6698, 6996
Fantino, M. G. 8523, 8530, 8533
Fantuz, F. 4631, 8533
FAO Plant Production and Protection Paper 4072
FAO Plant Protection Bulletin 646
Faoro, F. 2538, 6010
Faou, J. M. 3516
Faretra, F. 2987, 2994, 3299, 3376, 4202, 4956, 5744, 5747, 6190
Fargašová, A. 4729
Fargette, D. 1569
Farina, G. 2538, 2560, 8252
Farine, A. 576
Farinelli, L. 6809, 7060
Faris, D. G. 5276
Farkas, G. 7780
Farm Chemicals 3264, 7211-7212, 7234
Farrand, S. K. 1206
Farrar, J. F. 2705, 3569, 5873, 8326
Fassihiani, A. 6866
Fattori, M. 8709
Faucher, E. 1522
Faulds, C. B. 2444
Faungfupong, S. 4397
Fauquet, C. 390, 1569, 8190, 8499
Fauquet, C. M. 8199
Fauth, R. 6657
Favali, M. A. 2596, 6593
Favaron, F. 5764
Favey, S. 4059, 6401
Fawole, E. A. 3927
Fawzy, R. N. 7139
Fayzalla, E. A. 5614
Fedak, G. 4374
Fedi, I. D. 4841
Fedorchenko, G. L. 4518
Fedorchenko, V. S. 6433
Fedorkin, O. N. 1344, 5096
Fedorov, N. I. 4833
Fedorov, V. N. 4845
Fedorova, R. N. 1378, 1405, 4295
Fedulova, T. Yu. 2598
Fehér, A. 1505
Fehrmann, H. 1991, 2002, 2018
Feichtenberger, E. 4004-4005
Feldmann, F. 2366, 5701
Feliu, E. 988, 1124
Felix, D. B. 5084
Felix, G. 1551, 2343
Fellay, R. 662
Fellman, J. K. 3736
Felsot, A. S. 4110
Fenczik, C. A. 1662
Fenemore, P. 8806
Feng, D. G. 7539
Feng, F. 2008
Feng, H. M. C. 1226
Feng, L. X. 6092, 6118, 8548
Feng, L. Y. 2723
Feng, P. 1533
Feng, S. Q. 8656
Feng, Y. X. 2921
Feng, Z. M. 923
Fengel, D. 4788
Fengtai, Z. 2028
Fenselau, S. 1011, 1219
Fenton, A. M. 3925
Fereres, A. 7706
Ferguson, A. W. 5464
Ferguson, B. S. 8074
Ferguson, C. 3277
Ferguson, C. M. 7583
Ferguson, G. M. 2215
Ferguson, I. B. 3822
Ferguson, M. P. 7231
Fermaud, M. 2995
Fernandes, J. M. 8283
Fernandes, M. do C. A. 6907
Fernández, A. 7935
Fernández, J. A. 6275
Fernández, J. E. 2254
Fernandez, M. 4060
Fernandez, M. A. 4926
Fernandez, M. R. 1379, 1482, 5846, 8283
Fernández, N. 5029
Fernández-Escobar, R. 6243
Fernández Fadraga, T. 2780
Fernández García, E. 423
Fernández M., C. 2214
Fernandez-Northcote, E. N. 177, 4515
Fernando, D. G. 938
Ferraris, L. 71
Ferraz, J. F. P. 3969
Ferreira, D. I. 403
Ferreira, F. A. 5535
Ferreira, G. W. S. 2391
Ferreira, J. F. 2877, 7672
Ferreira, J. H. S. 4653
Ferreira, M. C. 2391
Ferreira, M. E. 8516
Ferreira, M. S. 6438
Ferreira, S. 7142
Ferrera-Cerrato, R. 4157-4158, 4980, 4982, 5916
Ferrero, C. 2709
Ferrero, M. L. 7698
Ferrière, H. 1006, 2879
Ferrin, D. M. 608, 7947
Ferriss, R. S. 3348
Ferro, P. 7651
Ferron, P. 6611
Ferry, A. 8075
Festić, H. 6158
Fetisov, A. V. 1028
Fett, W. F. 673, 1204
Feucht, W. 2931
Feurer, G. J. 1072
Fèvre, F. 1199
Fevre, M. 5760
Fèvres, M. 1883
Feyter, R. de 4782, 5657
Fiaccadori, R. 2944
Fiala, I. 1199
Fichter, P. M. 8055
Fidan, Ü. 346
Fiddaman, P. J. 3253
Fieland, V. 5644
Fielder, R. J. 8043
Figge, K. 7225
Figueira, A. dos R. 1490
Figueiredo, J. M. de 2339, 3929
Figueredo, E. 2898
Figueroa, L. de 502
Figueroa, P. 1393
Filajdić, N. 1579, 2226
Filigarová, M. 1656
Filimonova, M. V. 3381
Filip, G. 3154
Filip, G. M. 8768
Filip, I. 1592
Filippi, C. 6345
Filippi, M. C. 4427
Filippov, A. V. 979
Filiz, N. 6903
Fillipov, A. V. 2838
Fillippini, L. 1817
Filonow, A. B. 1101, 3071
Filsouf, F. 6805
Finch, L. R. 3456
Finckh, M. R. 263, 4330, 4332
Finđo, S. 3964
Fink, W. 384
Finkel'shteĭn, Z. I. 3313
Finkler, A. 6457
Finlay, A. R. 2261, 3869
Finlay, G. P. 1014
Finnegan, E. J. 3959
Finnen, R. L. 8232
Fiola, D. S. 3122
Firdousi, S. A. 1704
Firman, D. M. 8493
Firrao, G. 8234
Firsching, K. H. 4342
Fischbeck, G. 3575, 4364, 7488-7489
Fischer, B. 6090
Fischer, B. B. 6069
Fischer, C. 7731
Fischer, D. B. 8717
Fischer, D. L. 8113
Fischer, M. 3411
Fischer, S. L. 140
Fischl, G. 1515, 1523
Fisher, B. 6187
Fisher, C. R. 7064, 8715
Fisher, P. J. 3640, 5609, 7163
Fisichella, G. 71
Fitch, M. M. M. 3034
Fitt, B. D. L. 825, 869, 1092, 3892, 5464, 8672-8673
Fitter, A. H. 4995, 5719, 8143-8144
Fitzell, R. D. 5456
Flavell, R. B. 822
Flego, D. 658
Fleischhacker, C. 8713
Flemming, G. 6321

Flesch, P. 7344
Flessner, T. R. 2510
Fletcher, J. 214, 1977
Fletcher, J. D. 4886, 8423
Fletcher, J. T. 4273
Fletcher, M. J. 4870
Fletcher, M. R. 8110
Flett, B. C. 5915
Flett, S. P. 8421
Flint, K. M. 1041
Flint, M. L. 7229
Flood, J. 4711, 5467
Florence, E. J. M. 3966, 5542
Flores, C. 1001
Flores, R. 196, 1051, 5394, 7803
Flori, P. 2682, 7456
Florian, V. 8832
Floris, E. 5365, 8591
Floyd, R. M. 3753
Flückiger, W. 7924
Flynn, P. H. 4822
Flynn, T. 1253, 7279
Fochenkova, T. V. 3531
Fodor, E. 1900
Fogher, C. 3862
Fogleman, J. C. 8
Foguet, A. D. 6983
Foguet, J. L. 6983
Fojtík, A. 1475
Fokkema, N. J. 644, 4548, 6071
Folchi, A. 2220
Foletto, B. 8524
Folkerstsma, S. 1598
Follas, G. B. 7631
Fominova, A. V. 453
Fong, W. G. 46
Fontaine, D. D. 1809
Fontana, A. 1848, 4212
Fontenla, S. 4998
Fontenla, S. B. 6325-6326
Fontes, L. F. 6439
Fonvieille, J. L. 5005
Food and Agriculture Organization 3268, 4957, 5439, 5635, 8067
Foot, J. Z. 8410
Forbes, G. A. 4226
Ford, R. E. 188
Förderer, L. 6323
Formanová, M. 3550-3551
Fornaciari, M. 3831
Fornaris, G. 2909
Forney, C. F. 5427
Forno, W. 4031
Foroughi-Wehr, B. 2821, 5173
Foroutan, A. 1461
Forrer, H. R. 137, 8269
Forschner, W. 1718
Förstel-Neuhaus, A. 3063
Forster, B. 8308
Forster, B. P. 1992
Forster, R. L. S. 3442
Fortas, Z. 6503
Fortin, C. 4914
Fortin, J. A. 2494, 2496, 4171, 4963, 4965, 6470
Fortnagel, B. 7391
Fortnum, B. A. 889
Forutan, A. 6672
Fos, A. 1348
Foschi, S. 2478, 7758
Foster, G. D. 1507, 2155
Foster, H. A. 4959-4960
Foster, J. E. 2703
Foster, J. L. M. 8
Foster, L. M. 7392
Foster, S. A. 3522, 6450, 8256
Fouly, H. M. 1329
Fourie, P. C. 3032
Fowler, D. B. 1388
Fowles, N. 5644
Fox, R. A. 6815
Fraaye, B. A. 8158
Frahm, J. 237
Fraissinet-Tachet, L. 1883
Fraley, R. T. 1659
France, Centre Technique Interprofessionnel des Fruits et Légumes 4904
France, Chambre d'Agriculture de l'Aude 4646, 7215
France, Département de la Santé des Forêts 2373
France, Union Nationale Interprofessionnelle des Légumes Transformés 2118, 2128
Franche, C. 8499
Francis, S. M. 7987
Franck, A. 3033
Franck, E. 8024
Francki, R. I. B. 800, 804, 1335, 1980, 5050, 8728
Francl, L. J. 3324, 3475
Francotte, E. 4103
Frank, J. A. 8336
Frank, J. R. 4893
Frank, M. 6192
Frank, R. 435
Frank, S. A. 3463, 5823
Frankel, H. 2860
Franken, A. A. J. M. 4056
Franklin, C. A. 86
Franklin, N. C. 28
Franqueville, H. de 3062
Franson, R. L. 8138
Franz, F. 8766
Franza, T. 1179
Fränzle, O. 8750
Fraser, R. S. S. 4238, 7420
Frauen, M. 2787
Fravel, D. R. 2875, 3222, 3727
Frean, R. T. 7805
Frebis, C. P. 3261
Frederick, R. D. 662
Frederickson, D. E. 5932
Frederiksen, R. A. 305, 309, 1436, 1442, 3612, 3615-3616, 3625, 4403, 7318, 7512, 8357
Frederiksen, W. 4918
Freed, D. D. 171
Freeman, S. 446
Freeman, T. P. 2307
Fregonese, L. H. 6779
Frehner, M. 602
Frehse, H. 17
Frei, B. 8047
Frei, U. 4514
Freitag, M. 1689, 4192
Freitas, S. S. 3775
Freitas Oliveira, H. de 1528
French, C. J. 5811
French, R. 182, 790
Frenk, E. 5698
Frenkel, M. J. 164, 188, 4245, 5097
Frennet, M. 6454
Frew, T. J. 4483
Frey, B. 2928, 6485
Frey, T. 813
Freyssinet, G. 1883, 5760
Freytag, G. F. 3688
Freytag, S. 3380
Friar, P. M. K. 8653
Fribourg, H. A. 5978-5979
Frick, J. 7713
Fridlender, B. 8651
Friebe, B. 1992, 5854, 5858
Fried, A. 3821
Fried, P. M. 137, 2669
Friedrich, L. 4757
Friedt, W. 874, 2688, 3046, 5886
Friends of the Earth 1829
Fries, M. R. 2525
Friese, C. F. 6225
Friis, P. 2040
Frilander, M. 4929, 4932
Frio, A. S. 4900
Frisbie, R. 223
Frischmuth, S. 8218
Frischmuth, T. 194, 8218
Frison, E. A. 415, 924, 988-991, 1065, 1075, 1124, 1181, 5078
Frist, R. H. 4577
Frisullo, S. 4731, 6955
Frisvad, J. C. 3410
Fritig, B. 1127, 3936
Fritsch, C. 5088
Fritsche, W. 8430
Frittrang, A. K. 2112
Fritz, R. 4104, 7223, 7226, 8052
Fritz, V. A. 1975
Froberg, J. E. 55
Froeliger, E. 883
Frolyakina, A. I. 3184
Frommhold, I. 3096
Frosi, J. F. 2171
Frucht, A. 4929
Frużyńska-Jóźwiak, D. 613, 7673
Fry, W. E. 231, 1283, 3715, 3717, 7321, 8490
Frydecka-Mazurczyk, A. 5283
Fu, J. R. 5431
Fuchs, M. 5066, 5077
Fuchs, Y. 8732
Fuente-Martínez, J. M. de la 7071
Fuentes-Davila, G. 1396, 5869
Führ, F. 83, 7201, 7218-7219, 7227
Führer, E. G. 6294
Fuji, S. 8367
Fujieda, K. 997, 3781
Fujii, H. 8639-8640
Fujii, T. 3248
Fujimura, M. 3294, 6444
Fujisawa, I. 352, 1933, 1974, 6625
Fujita, K. 910
Fujita, T. 1203, 4938
Fujita, Y. 5172, 6711, 6730, 7389, 8185
Fujiwara, S. 7159
Fujiwara, Y. 4006
Fukamachi, S. 1531
Fukaya, M. 6190, 6934
Fukaya, T. 6728-6729
Fukuba, T. 5206
Fukuchi, N. 1217, 6028
Fukuda, T. 5160-5161, 7970
Fukumoto, F. 7530, 8201
Fukuyama, T. 4370
Fuller, D. L. 7127
Fuller, G. B. 7231
Fuller-Lewis, H. E. 3262
Funk, C. R., Jr. 1469
Furlan, V. 723, 3344, 4171
Furneaux, M. T. 4500
Furness, G. 5682
Furtado, E. L. 579, 3908, 5526
Furter, R. 8102
Furuichi, N. 7646
Furuki, T. 5210
Furusawa, I. 1287, 5080, 6591, 7882, 8177
Furuya, M. 6527
Furuya, N. 6393, 6399, 6407, 6742, 6749, 6874
Fusconi, A. 4169
Fütterer, J. 1322, 1945
Fuzatto, M. G. 570, 5518
Füzi, I. 3696
Gaag, M. van der 7113
Gaba, V. 6207
Gabelman, W. H. 8498
Gabler, J. 1012
Gáborjányi, R. 2049, 3606, 4297
Gabriel, D. W. 4782, 5657
Gabriel, W. 6037
Gacek, E. 3571
Gaddagimath, N. B. 5736
Gade, R. M. 111
Gadegård, K. 5845
Gadgil, J. D. 1657
Gadoury, D. M. 5386, 6145, 6967
Gaffney, T. D. 6383
Gafni, R. 7876
Gage, D. A. 4063
Gagey, M. J. 5501
Gagkaeva, T. Yu. 3504
Gahukar, K. B. 1022
Gai, J. Y. 364
Gai, Y. S. 8508
Gaidai, A. E. 3236
Gaignard, J. L. 5590
Gaikwad, S. J. 1105
Gal-On, A. 3439, 5069
Galádova, M. 1902
Galal, A. 3720
Galal, M. S. 2105
Galán, G. 2780
Galassi, S. 8116
Galet, P. 4642
Galindo, E. 1001
Galindo, J. J. 556, 559
Galindo, L. 3020
Galiulin, R. V. 6962
Galiulina, R. A. 6962
Gall, C. 6529
Gall, O. le 1320, 3939, 5059
Gallagher, E. P. 1243
Gallagher, K. D. 5633
Gallego, E. 2549
Gallerani, G. 6928
Galli, E. 8026
Gallie, D. R. 5814
Gallitelli, D. 2610
Gallo, J. 4279
Gallo, P. B. 6772
Gallo, S. 5123
Gallois, A. 3761
Gallotti, G. J. M. 1066
Galoux, M. 1820
Galvan, C. 3631
Galzy, P. 4650
Gambin, E. 3848
Gámez, R. 1977, 7497
Gámez Vázquez, F. P. 2338
Gamliel, A. 3480
Gamonal V., A. 2850
Gams, W. 3217
Gan, D. Y. 8381
Gan, L. 8742
Ganapathy, T. 1099, 5473, 7830
Gancheva, V. 5770
Gandhi, S. K. 1429, 5282
Ganesan, T. 4112
Gangadhara, G. A. 4144
Gangopadhyay, S. 6029
Gangwar, B. 5202
Gangwar, S. K. 3852
Ganio, L. 5644
Ganzhelo, O. I. 8427
Gao, B. Z. 2083
Gao, J. C. 5574
Gao, J. G. 818
Gao, J. L. 7200
Gao, R. X. 8654
Garavaglia, C. 1817
Garbaczewska, G. 995
Garbaye, J. 695, 697, 2495, 3325, 4116
Garber, E. D. 5021
Garcha, H. S. 5772
García, A. L. 3020
García, C. 7328
García, E. 7002
Garcia, J. 600, 2846-2847, 5553
García, J. A. 2577, 4252, 8216
García, J. I. 1880
García, J. L. 3868, 5241, 7586
Garcia, M. R. 6465
Garcia, N. 2079
García, S. 2234
García, S. E. 7123
Garcia, S. M. 8623
García, T. 7751
Garcia, V. 3103
García-Acha, I. 540-541, 2442
García-Arenal, F. 4354
Garcia E., R. 6076
García Espinosa, R. 5916, 6220, 6781
García-Garrido, J. M. 1264, 5729
García-Jiménez, J. 5366, 7711, 7721, 7723, 8590
García-Luque, I. 7698
Garcia-Morato, M. 7721, 7723
García-Olmedo, F. 3493, 5164, 6275
García-Romera, I. 1264
Gardan, L. 3249, 6410
Gardes, M. 6574
Gardezi, A. K. 4982
Gardiner, R. B. 8598
Gardiner, W. E. 1665
Gardingen, J. van 407

Gardner, D. E. 5608
Gardner, H. W. 3728
Gardner, K. A. 5089
Gardner, R. 1328
Garg, I. D. 6035, 6876
Garg, S. C. 8119
Garg, V. K. 7291
Garge, R. D. 4868
Garibaldi, A. 2478, 4290, 4852, 6150, 6328, 6870
Garner, G. B. 8405
Garnett, H. M. 2778, 7590
Garnier, M. 1348, 6211, 6213
Garrec, J. P. 7121
Garrido, M. J. 2561, 4250
Garriga, X. 3229
Garrigue, L. 8225
Gärtner, E. 1718
Gärtner, E. J. 1170
Gartner, H. 6911
Garza López, J. G. 6765
Garzón-Tiznado, J. A. 8575
Gas, G. 487
Gasparotto, L. 5522
Gast, S. J. 8756
Gaston, L. K. 2896
Gasztonyi, M. 4108
Gat, Z. 5448
Gatehouse, A. M. R. 2434
Gathuru, E. M. 7864
Gatsinzi, F. 5436
Gatti, A. 3582
Gaudêncio, C. A. 1986
Gaudet, D. A. 1581, 2022
Gaudin, V. 7185
Gaunt, R. E. 2031-2032, 3835, 7736, 7783
Gaur, R. B. 3702
Gaurilčikienė, L. 3670
Gautheron, N. 576
Gauthier, L. 8569
Gavin, A. M. 341, 344
Gaviria, M. E. 3632
Gawel, N. 16
Gawith, R. S. 469
Gay, A. P. 2705
Gay, G. 710, 2498
Gay, J. D. 7355
Gayatri Baruah 4818
Gayatri Biswal 7549
Gaye, M. M. 6064
Gayraud, P. 2771
Gazey, C. 7305
Gazziero, D. L. P. 6364
Ge, Q. L. 4337
Ge, Q. X. 1300, 1303, 1307, 1309-1311, 1313, 1464, 1565-1566, 1677, 1745, 1747, 1782, 1790, 1887-1888, 2210, 3771, 6563
Ge, Z. M. 5073
Geaghan, J. P. 6256
Gebert, J. 6230
Gebhardt, C. 2834
Gebhardt, D. J. 3563
Gebre-Selassie, K. 8576
Geeraert, H. 5757
Geeta Sumbali 6218
Geeta Tandon 5143
Geetha Upadhyaya 2724
Gehring, C. A. 1849
Geider, K. 1053, 1786, 6400, 7192, 8430
Geier, G. 1053, 1786
Geiger, E. A. 2015
Geiger, H. H. 3590-3591, 5908, 6691, 7494
Geiger, J. P. 1142, 3906, 5521, 7902
Geils, B. W. 8794-8795
Geletka, L. M. 2888
Gelimbatovskaya, R. V. 535, 7047
Gellatly, D. L. 4261
Gellini, R. 3167
Gellner, J. L. 8337
Gelpe, J. 697
Gelvin, S. B. 3230, 5647
Gelyuta, V. P. 3396
Gemma, J. N. 725, 1253, 7279
Gendiah, H. El-S. M. 6957
Gendrier, J. P. 2937
Genet, J. L. 8310
Geng, S. 2676
Genin, S. 1202, 8035
Genizi, A. 7667
Gennari, S. 5340, 8535-8536
Gent, R. 3045
Gentile, A. 2263, 6991
Gentile, I. A. 71
Genuchten, M. T. van 5671
Geoffroy, P. 1127, 3936
Georgakopoulos, D. G. 1412
George, B. 3338, 8136
George, E. 2508, 4170, 4992
Georgieva, I. D. 4762
Georgieva, O. 441
Georgopoulos, S. G. 5758
Gera, A. 5805
Gérard, H. C. 673, 1204
Gerbrandy, S. J. 3748
Geremia, R. A. 112-113, 6538
Gerettson-Cornell, L. 5040
Gergerich, R. C. 169, 2187, 5133
Gerhardson, B. 619, 5885, 7353
Gerigk, M. 6318
Gerik, J. S. 8519
Gerlagh, M. 1294, 6792-6793
German, S. 3451
German, S. E. 7459
German, T. L. 3026, 5813
Germany, Bundesministerium für Ernährung, Landwirtschaft und Forsten 8748
Germany, Deutsche Gesellschaft für Technische Zusammenarbeit 1197
Geron, C. D. 4830
Gessler, C. 1044, 2946, 2949
Gestel, C. A. M. van 1246, 7208
Gesunde Pflanzen 254, 7253
Getinet Gebeyehu 1993
Ghabrial, S. A. 2102
Ghaffar, A. 3131
Ghanekar, A. M. 375, 961
Ghanem, E. H. 2010
Ghani, M. Y. 3846
Ghaouth, A. E. 738
Ghedini, R. 3922-3924
Ghemawat, M. S. 7819
Gheorghe, M. 3460-3461
Ghewande, M. P. 8682
Ghigo, J. M. 2445, 3240
Ghini, R. 122, 6456, 6543, 6950
Ghisalberti, E. L. 6537
Ghisellini, L. 2682
Ghizdavu, I. 8832
Ghobadi, C. 6859
Ghoderao, B. N. 3111
Ghodeswar, K. S. 5530
Ghorrah, M. A. 3249
Ghose, S. K. 4714
Ghosh, I. 1140
Ghosh, M. 668
Ghosh, S. 6770-6771
Ghosh, S. K. 992, 1080, 1749
Ghosh, T. 1140
Ghufran, S. M. 8385
Giaccone, P. 1279
Giacobbe, R. A. 1757
Gianinazzi, S. 1280, 4159, 4997, 8140-8141
Gianinazzi-Pearson, V. 1279-1280, 4159, 8140-8141
Giannini, J. L. 2110
Giannini, R. 1721
Giannotti, J. 1143
Gibbon, M. J. 2446
Gibbs, A. 8840
Gibbs, A. J. 2579, 7408, 8839, 8841
Gibbs, M. J. 5089
Gibon, C. B. 5590
Gibson, J. L. 2556
Gibson, R. W. 8473
Gidoni, D. 5322
Gieffers, W. 2834
Gielen, J. J. L. 4759
Giersemehl, I. 935
Gierz, R. 1049
Giese, H. 1538, 4365, 6683, 7323
Gieseke, J. A. 3272
Giesler, G. G. 7535
Giezen, S. 2959
Gijsegem, F. van 4292
Gil, M. 4116
Gil Ortega, R. 2907, 6117, 6122-6123, 6882-6883, 6887, 8539, 8579
Gil Sanchez, L. 7102
Gilbert, J. 5874
Gilbert, R. L. 4435
Gilbertson, R. L. 2127, 3769, 5806, 5810, 7156, 8625
Gilchrist, D. G. 2676, 5338
Gilchrist, L. I. 5157-5158, 8312
Gilchrist Saavedra, L. 5869
Gildow, F. E. 1372, 4248, 8336
Giliomee, J. H. 299, 4381-4383
Gill, B. S. 860, 5854, 5858
Gill, C. K. 5246
Gill, D. L. 2403
Gill, K. S. 2663, 3533, 4334, 8300
Gill, S. 7958
Gill, W. M. 5605
Gillaspie, A. G., Jr. 1648, 6131
Gillberg, T. 7643
Gillespie, T. J. 8562
Gillespie-Sasse, L. M. 6676
Gilli, G. 6940
Gilligan, C. J. 5554
Gilliland, G. C. 6034
Gillings, M. R. 807, 3455, 5060
Gillings, M. R. A. 5601
Gillis, M. 7198
Gillissen, B. 108, 884
Gilly, A. 5996
Gilmore, J. H. 5634
Gilmour, J. 64
Gimenez Verdu, I. 4673-4674
Gingera, G. R. 1417
Gingery, R. E. 876, 3447, 6695
Ginkel, M. van 1985, 1993
Ginns, J. 6385
Ginzberg, I. 5819, 6457
Gioia, B. 1879
Giorcelli, A. 584, 3138
Giorgadze, R. D. 500, 5108, 5591
Giorgobiani, R. Ė. 2219
Giovannini, T. 6040
Girard, G. 1172
Giri, D. 5113
Giri, S. 6445
Girija, V. K. 3741
Gisi, U. 3716, 6102, 7240
Gispert, M. 2967
Gitaitis, R. D. 433, 3179, 5556
Giulio, R. T. di 1243
Giunchedi, L. 1054, 1570, 3089, 4264, 8521
Gladders, P. 3585, 8515
Glandard, A. 1006
Glascock, C. 3100
Glascock, C. B. 3467
Glass, A. D. M. 2915
Glass, K. M. 3116
Glawe, D. A. 247
Glaze, N. C. 4767
Glazkova, G. A. 2832
Gleason, M. L. 4822
Gleitz, J. 2168
Glenn, A. E. 7569
Glickmann, E. 6410
Glidewell, S. M. 5298
Glover, L. A. 408, 947, 1210
Glumova, N. V. 7981
Glushak, L. E. 475
Gnanamanickam, S. S. 5953, 6979, 8379
Gnezdneva, N. P. 3515
Gnutova, R. V. 3448
Goba, A. 1709
Gobbi, E. 8234
Gobelman-Werner, K. S. 5903
Gocha, N. 6453-6454
Gocho, H. 6669
Godbout, C. 6470
Godefroy-Colburn, T. 5501
Godfrey, C. R. A. 8100
Godkin, S. E. 3994
Godoy, G. 2791
Godoy, R. 5702
Godoy Angulo, T. P. 6138
Godwin, J. R. 8100
Goedicke, J. 4958
Goel, R. K. 2665, 3655, 5228
Goetghebeur, M. 4650
Goffart, J. P. 7851
Goga, N. 3460
Goggioli, V. 593
Gogna, E. 2461
Goh, C. J. 2530, 4246, 8817
Goh, H. H. 7789, 8637
Goh, T. K. 1911
Goheen, A. C. 6959-6960
Goins, T. 4283
Gojković, G. 3139
Gokkes, M. 3995
Gokte, N. 326
Gokulapalan, C. 4441
Gold, S. E. 6702
Goldbach, R. 165, 184, 1320, 2348, 4253, 4759, 5061, 5065, 5076, 5796, 8468
Goldbach, R. W. 1178, 3098, 5052, 7059, 8725, 8816
Golden, A. M. 1360, 4767
Goldman, G. H. 112-113, 145, 6538
Goldman, R. C. 1783
Goldstein, I. J. 7901
Golini, P. 1817
Golino, D. A. 1070, 2983, 5323
Gollotte, A. 4159
Golob, C. T. 8401
Golob, S. 1149
Golubenkova, T. A. 1114
Golyshin, N. M. 422, 425, 3804, 6075
Gómez, A. 1880
Gómez, F. 3620
Gomez, G. 2846-2847
Gomez, J. 2708, 7724
Gómez, J. E. 4661
Gomez, M. I. 2720
Gómez Aguilar, J. R. 6138
Gómez-Guillamón, M. L. 5355, 8587
Gómez H., J. E. 4633
Gómez Hurtado, J. E. 2878
Gonçalves, A. N. 1259
Goncharov, N. F. 2334
Goncharov, N. P. 4042
Goncharov, N. R. 1508
Goncharov, S. V. 250
Goncharova, T. F. 3804, 6075
Gong, Z. H. 6124
Gong, Z. X. 1333, 4255, 8834
Gonnelli, T. 3126
Gönner, M. von 2704
Gonsalves, C. 212
Gonsalves, D. 212, 2347, 2913, 3034, 7002
Gontia, A. S. 2726
Gonzalez, A. G. 5698
Gonzalez, C. 3603
González, J. 1701
González, L. A. 3868, 5241, 7586
González, N. 8573
González, R. 3632
Gonzalez, R. H. 2459
González Ávila, M. 4705, 5263, 7818
González-Candelas, L. 5027
González de las Heras, B. 1060
González-Hernández, V. A. 3614, 3618
González M., S. 2831
González Merchán, M. 3391
González R., M. R. 944
González-Salán, M. M. 2201
González Torres, R. 8592
Gooch, N. 8268
Gooden, J. M. 7571
Gooding, G. V., Jr. 8727
Goodman, B. A. 5298, 6165
Goodman, R. M. 940, 3100
Goodman, R. N. 6192, 7787

Goodrick, B. J. 353
Goodwin, J. 2515
Goodwin, P. H. 1495, 1625, 5463
Goodwin, S. B. 231, 870, 1283, 2044, 8490
Goor, M. 7198
Goos, R. D. 762, 7360
Gopal, K. 5480
Gopalan, M. 5279
Gorbalenya, A. E. 5051
Gorbet, D. W. 8681
Gorbunova, N. I. 2779, 3088
Gordon, D. T. 2708, 3447
Gordon, J. C. 2506
Gordon, K. 1945
Gordon, T. R. 739, 5036, 7354
Gordon-Weeks, R. 2344
Gorfu, D. 377
Gorgoschidse, L. 2655
Gorgus, E. 4170
Gorini, F. 5121
Gorman, D. P. 3604
Gorovaya, A. I. 4095
Goshi, A. 3399
Goss, D. W. 1808
Goss, S. 2446
Gossen, B. D. 347
Gossmann, M. 880
Gosti, F. 663
Goswami, B. K. 2217, 5382
Goszczyński, W. 5420
Goszczynski, W. 5390
Goth, R. W. 6056, 7422
Gotlib, Y. 2407
Goto, M. 1215, 3838, 4006, 4718, 6997, 7109, 7963, 8815
Goto, S. 1225
Goto, T. 6803, 6825
Gotoh, M. 4634
Gott, K. P. 4226
Gottermann, S. 7815
Gotthardt, U. 1997
Göttlein, A. 8803
Gottlieb, H. E. 4179
Gottlieb, P. 4925, 4928-4929, 4931-4932
Gottstein, D. 1145
Gottwald, T. R. 506-507, 2270, 7796
Götz, E. 5292
Götz, M. 7665
Gough, C. L. 1202, 8035
Gough, K. H. 4245
Gough, R. E. 5416
Gouk, S. C. 7741-7742, 7790
Goulart, A. C. P. 330, 5517
Gould, A. B. 470, 3129
Gould, F. 1776
Gould, W. D. 5515
Goulden, M. G. 5816
Gour, H. N. 2072, 7522-7523
Gourinath, A. 3286
Gourmet, C. 4372
Gourp, V. 6480
Goussard, P. G. 4643, 7779
Govers, F. 4524
Govier, D. A. 949
Govind Chandra 792
Govind Singh 6710
Govindaiah 4640, 6953
Govindan, M. 7024
Govindarajan, T. S. 546, 7865, 7867
Govoni, P. 4204
Gowda, B. J. 2059-2060, 3598, 8351
Gowda, C. L. L. 5276
Gowda, K. T. P. 2059-2060, 3598, 8351
Gowda, P. S. B. 310
Gowda, S. 5102, 5802, 8222
Gowdu, B. J. 6252
Gowha, P. H. R. 2904
Gowing, D. P. 762
Goy, P. A. 1026, 2343
Gozzini, B. 2246
Gozzo, F. 2538
Graaf, N. A. van der 1653
Graaff, L. H. de 8158
Graap, E. 30
Grabbe, K. 4018
Grabowski, H. 1170
Grabowski, M. 4612
Graça, J. V. da 3012
Graf, F. 8129
Grafe, A. 4237
Grafton, K. F. 3684, 8439
Graham, C. T., Jr. 1134
Graham, D. C. 407
Graham, J. H. 507, 1607, 2270, 2516, 6486, 6993, 7798, 8655
Graham, M. J. 5922
Graham-Bryce, I. J. 6414
Grajal-Martín, M. J. 8457
Grambow, H. J. 1997
Grammatikaki, G. 943
Gramss, G. 1148, 5531
Granada, G. A. 2200, 3009, 6282
Granados, G. 5186
Granados Alvarez, N. 5916
Granata, G. 2985, 4823
Granda, E. de 1701
Grandtner, M. M. 2494
Graner, A. 2821, 8324
Granges, A. 5842
Granier, A. 8530
Granin, E. F. 255, 271, 2739
Graniti, A. 1173, 7946
Grant, B. R. 733, 6514
Grant, F. A. 1210
Grant, J. A. 7812
Grant, J. H. 733
Grant, S. L. 2068
Grassi, G. 2736, 3092, 4575, 5964
Grassi, L. 2648
Grassi, M. 4233
Grasso, S. 6227
Grau, R. 8109
Grave, R. C. 8110
Graversen, S. 7634
Graves, C. H., Jr. 2288-2289, 4691
Graves, W. R. 6340
Gray, A. I. 1833
Gray, D. A. 3776
Gray, E. C. 677, 8058
Gray, F. A. 7580
Gray, J. 5647
Gray, R. M. 1931
Gray, S. M. 790
Grayson, B. T. 29, 3214, 5946, 6429, 6443
Grebenchuk, E. A. 5155
Grebenshchikov, S. K. 4041
Greber, R. 5358
Greber, R. S. 927, 1027
Gredt, M. 6529
Greeff, R. de 618
Green, C. P. 3202
Green, D. E. 8097
Green, H. 449, 5776
Green, J. R. 3426
Green, K. S. 2856
Green, M. B. 5946
Green, M. C. E. 8268
Green, M. J. 3994, 6174
Green, S. K. 6834, 8203
Greene, T. A. 5540
Greenup, L. R. 5659
Greenwood, A. 6592
Greer, J. I. 8354
Gref, R. 3157
Gregersen, P. L. 2038, 4362
Gregori, G. 2500
Gregori, G. L. 2491
Gregorová, B. 7104
Gregory, A. J. 2132
Greig, N. 4620
Greig-Smith, P. W. 8111
Grelen, L. B. 6256
Grenan, S. 483
Grendowicz, L. 220
Grenier, J. 723, 738, 3774
Gressel, J. 7994
Greulich, F. 1789, 7690
Greuning, M. van 630, 1185
Grewal, A. S. 8300
Grewal, R. K. 3800, 4100, 8249
Grewal, S. K. 3645, 4432
Grey, A. E. 4085
Grey, W. 4283
Grey, W. E. 872
Grichar, W. J. 1100, 8688
Griciutė, S. 2552
Gridi-Papp, I. L. 5518
Gridnev, V. V. 1512, 2158
Grieco, F. 6244
Grieken, R. van 4964
Griensven, L. J. L. D. van 629
Grierson, D. 8550
Griesbach, J. A. 1623
Griffen, A. M. 1292
Griffen, G. J. 4214
Griffey, C. A. 7468
Griffin, G. D. 5986
Griffioen, W. A. J. 4991
Griffith, G. S. 1150, 1155
Griffith, J. M. 6514
Griffiths, D. A. 4129-4132
Griggs, T. 2635
Grigor'ev, M. F. 2024
Grigor'yants, É. G. 3110
Grillet, L. 7108
Grimaldi, V. 2985, 6210
Grimault, V. 8568
Grimbeek, R. J. 530
Grimm, R. 6192
Grimont, F. 3249
Grimont, P. A. D. 3249, 3761
Grinberg, S. 3762
Grindle, M. 5744
Grin'ko, N. N. 3805
Grinstein, A. 2860, 3418, 4287
Grinsven, M. Q. J. M. van 4759
Gripwell, E. 6042
Grisham, M. P. 7046
Grishin, I. A. 349
Grisvard, J. 2793
Grodzinskiĭ, D. M. 2861
Groen, A. E. 3306
Grogan, R. G. 431
Grohmann, U. J. 4521
Gromet-Elhanan, Z. 2540
Grondona, I. 540-541
Gröntoft, M. 1089, 5794
Groot, S. P. C. 5370
Grosclaude, C. 3145, 3978, 3981
Grose, M. J. 1460, 4461
Gross, D. 1145
Gross, G. 6565
Gross, M. 1786
Gross, O. K. 1502, 2832
Grosskopf, D. G. 1551
Grossmann, F. 6642-6643, 6863
Groth, D. E. 4436, 5951, 7535
Groth, J. V. 1417
Grousson, C. 1595
Grove, G. G. 1577
Grove, T. S. 7287
Grover, R. K. 2462, 3709, 3730
Gruber, F. 8165
Gruez, J. 91
Grumet, R. 6588
Grundwaldt-Stöcker, G. 4161
Grüntzig, M. 3839
Gruyter, J. de 1752
Gruzdev, G. S. 4358
Grylls, J. 4357
Gryndler, M. 2509
Gryndlerová, H. 1374
Gu, B. K. 8248
Gu, H. F. 6136, 7700
Gu, Q. S. 3795
Gu, S. 8374
Gu, W. K. 7321
Gu, X. X. 3336
Gu, Y. H. 6520
Gu, Z. F. 1588, 5562, 8738
Gu, Z. Y. 320
Guan, J. 1815, 3298
Guay, R. 8569
Gubiš, V. 1473
Gubler, D. 6169, 7753
Gubler, W. D. 5430, 7768
Gucht, K. van der 1904
Gücin, F. 1306
Guddop, D. 7684
Gudmestad, N. C. 6397
Guehl, J. M. 91, 695
Guénin, M. C. de 3898
Guerber, J. C. 8518
Guerin, B. 3234
Guerra, C. 7935
Guerra Malvárez, A. G. 5263
Guerrero Cruz, E. 496
Guerrero G., O. 2859
Guerri, J. 3872
Guest, D. I. 7317
Guest, R. T. 7231
Guevara Vergara, E. 3182
Guevarra, M. M. 7849
Guggenbühl, C. 4469
Gügler, K. 7877
Guglielmone, L. 2709
Guha-Mukherjee, S. 7888
Guico, E. M. 7538
Guidasci, T. 2588, 5090
Guidetti, C. 6179
Guidi, L. 2113, 5834
Guidorzi, A. 6261, 8703
Guillaumes, J. 7734
Guillemaut, P. 7931
Guilley, H. 803, 1346, 3445
Guinebretière, M. H. 4639
Guirado, A. 1241
Gujer, H. U. 137
Gül, A. 4567
Gul', B. E. 816
Gulan, E. 150
Güler, P. 5713
Guleria, D. S. 5603
Gullino, M. L. 617, 2478, 4290, 4852, 5830, 6150, 6328, 6335, 6594, 6870, 7950, 7955
Gulua, M. K. 503
Gulya, T. J. 524, 2307, 4232, 6238, 7415, 8674
Gumenskiĭ, V. V. 2940
Gumpertz, M. L. 1020, 1897
Gumpf, D. J. 1606, 2262
Gunashinghe, U. B. 3026
Güncü, M. 810
Gundersen, D. E. 5109
Gunesekaran, M. 8679
Gunjal, S. S. 5541
Gunn, L. V. 807, 3455, 5060
Gunnell, P. S. 7768
Guntadze, T. Sh. 500
Guo, A. 2750, 5227
Guo, A. G. 8294
Guo, B. Z. 3348, 8146
Guo, D. S. 8661
Guo, D. Y. 6910
Guo, E. N. 4417
Guo, G. Y. 2428, 7991
Guo, H. 1284, 6849
Guo, J. Q. 354, 8426
Guo, J. Z. 6118
Guo, L. 5785
Guo, L. J. 3546
Guo, L. K. 5919
Guo, L. Y. 8170
Guo, M. 1373
Guo, S. G. 1337
Guo, S. H. 4254
Guo, S. X. 5767-5768
Guo, T. 5818
Guo, X. M. 4858
Guo, X. Q. 4785
Guo, Y. 3676
Guo, Y. L. 5783-5784, 5788, 8173
Gupta, A. 2664, 2666-2667, 2667
Gupta, A. K. 2657, 3037, 3655, 4322, 4328, 5141, 5228, 6744
Gupta, A. S. 3973
Gupta, B. D. 857
Gupta, B. M. 381
Gupta, B. R. 2129, 7621, 8388
Gupta, D. K. 3707, 4389, 5385, 8447, 8470
Gupta, G. K. 2948, 3628, 5388, 7728, 7732-7733
Gupta, J. C 5201
Gupta, K. C. 2481
Gupta, M. 3600
Gupta, M. C. 1160
Gupta, M. D. 1754
Gupta, M. K. 5383

Gupta, M. N. 8791
Gupta, M. P. 5698
Gupta, O. 5280
Gupta, P. 7732
Gupta, P. K. S. 917, 963, 2081, 5965, 8465
Gupta, R. 6578, 7345
Gupta, R. B. 1994
Gupta, R. C. 5694
Gupta, R. K. 3052
Gupta, R. P. 3750, 4150, 4482, 6795, 7613
Gupta, S. 3878, 5151
Gupta, S. C. 3608, 4201
Gupta, S. K. 5388, 7732, 8609
Gupta, S. P. 6130, 7726
Gupta, V. K. 5389, 7316, 7809, 8770
Gupta, V. P. 6876
Gupta, Y. 3845
Gupton, C. L. 476
Gurdev Singh 4334, 8513
Gurdip Singh 378, 2142
Gürer, M. 5826
Gurevich, B. I. 979, 2838
Gurgerli, P. 2981
Gurinderjit Kaur 6836
Gurmeet Singh 2009
Gurmit Singh 2312
Gurr, S. J. 2436
Gürsoy, O. V. 6365
Guseĭnov, Ė. S. 3980
Gusev, M. V. 4520
Gussakovskiĭ, E. E. 6539
Gustafson, J. P. 2673
Gustafsson, A. 5885
Gustafsson, G. 8240
Gustafsson, I. 2874
Gustafsson, M. 2605
Gustine, D. L. 8251
Guthrie, P. A. I. 309
Gutiérrez, C. 4354
Guttenberger, M. 4966, 7292
Gutteridge, R. J. 291, 2702, 5849
Guy, P. L. 3661
Guyon, J. 8754
Guyon, P. 3235
Guzhova, N. V. 4520, 7981
Guzman, E. D. de 2372
Guzman, G. 2430
Guzmán García, P. 6739
Guzmán-Plazola, R. A. 4980, 4982
Gvozdyak, R. I. 1216, 6692
Gwinn, K. D. 341, 344, 4444, 5978, 5980
Gworgwor, N. A. 712, 7295
Gyöngyösi, Á. 6671
Gyoutoku, Y. 1599
Ha, H. J. 6451
Haan, P. de 1178, 4759, 5052, 5065, 5076, 5796
Haas, K. 666
Habashi, M. 6982
Habeck, L. L. 3230
Haber, N. 3519
Haber, S. 242, 6355, 6693
Haberer, K. 2469, 5675
Habermehl, A. 7943
Habili, N. 2248
Habte, M. 94, 2522, 4986
Habuka, N. 157
Hacker, J. B. 8359
Hacksell, U. 4106
Hacourt, P. 6454
Hadar, Y. 3385
Hadden, J. F. 4692, 8635
Haden, E. 6642-6643
Hadi, S. 4961
Hadidi, A. 3854, 5411, 7422
Hadwan, H. A. 6247, 8558
Hadwiger, L. A. 2131
Haefele, D. M. 2068
Haemmerli, F. 1692
Haemmerli, U. A. 3133
Haenni, A. L. 793
Hafidi, B. 4298
Hafley, W. L. 4830
Hafner, G. 4251
Haga, M. 2078
Hagan, A. K. 1102, 4860
Hagedorn, C. 5515
Hagenvall, H. 8063
Hagerty, G. 7618
Hagihara, T. 2245, 7775
Hagimori, M. 7664
Hagita, T. 6756
Hagiwara, K. 3801
Haglund, W. A. 6638
Hahlbrock, K. 2835, 3241, 6816, 7155
Hahm, Y. I. 395, 3711, 6806, 8476
Hahn, B. H. 6806, 8476
Hahn, H. 3160
Hahn, M. 871, 1291
Hahn, M. G. 653
Hahn, P. 6804
Hahn, S. K. 6833, 8472, 8644
Hahne, G. 4754
Haigh, G. R. 2705
Hain, R. 5508, 8734
Hainsworth, J. M. 4461
Haisch, A. 8061
Hajimorad, M. R. 800, 804
Hajra, K. K. 8147
Halama, P. 4344, 5875, 7471
Halbert, S. E. 819-820
Halbrendt, J. M. 3814, 5411
Halder, I. van 7203
Hale, V. 5658
Haley, A. 1328
Haley, S. D. 8442
Halfon-Meiri, A. 4399
Halila, H. 379
Halin, R. T. 1711
Halisky, P. M. 1469, 1724
Hall, C. D. 79
Hall, F. R. 3260, 3273, 4094, 4581
Hall, G. 5044
Hall, J. L. 2132
Hall, R. 5898
Hall, R. L. 930
Hall, S. D. 641
Hall, S. M. 400, 2162
Hall, T. C. 5105
Hallauer, A. R. 5922
Haller, W. T. 5610
Hallett, I. C. 5237
Hallett, S. G. 6353, 7170
Halloin, J. M. 369
Halloran, G. M. 2770, 7565
Hallsworth, P. 5486
Hallsworth, P. B. 8705
Halmschlager, E. 7094
Halpern, B. T. 8223
Halstead, E. H. 2602
Halvorson, J. S. 2110
Ham, M. C. 600
Hamada, M. 3316, 6411
Hamamatsu, C. 4258
Hamant, C. 4054
Hamasaki, T. 5879
Hamberg, M. 1400
Hamburger, M. 5698
Hameed, S. 5329
Hamel, C. 1853
Hamelin, R. C. 5537, 6310, 8774
Hamer, J. E. 329, 333, 3626
Hamer, M. J. 8107
Hamers, M. E. C. 8172
Hamilton, A. J. 8550
Hamilton, B. 3957-3958
Hamilton, R. I. 415, 924, 1422, 2713, 4393, 4500, 5187, 5921, 8194
Hamilton, R. J. 6426
Hamilton-Kemp, T. R. 6506
Hamm, P. B. 140, 7763
Hammad, A. M. M. 6004
Hammann, T. 3046
Hammer, P. E. 5560
Hammerschlag, F. A. 1583, 7712
Hammerschmidt, R. 3812, 4063
Hammond, J. 203
Hammond, R. W. 1583, 1955, 2575
Hammouda, A. M. 495
Hampp, R. 4966, 7292
Hampson, M. C. 2833, 6055
Hampton, R. O. 174, 207, 372, 382, 2789, 5269, 5272
Hampton, S. W. 3280
Han, D. C. 3232
Han, M. J. 7843
Han, S. C. 5821
Han, S. S. 1451
Han, Z. S. 3095
Hanada, K. 1948, 2912, 5325, 8210, 8589
Hanada, T. 6762, 6776
Hanau, R. M. 824, 3370
Hance, R. J. 7201, 7218, 7227
Hanchinal, R. R. 4318
Hancock, J. G. 7576
Handa, S. K. 4335
Handelsman, J. 5371
Hander, C. A. 6129
Handley, M. K. 5977
Handrková, J. 2333
Hang, A. N. 6034
Hang, H. G. 8294
Hanlin, R. T. 772, 1911, 1913, 7837
Hanna, M. R. 1472
Hanna, W. W. 317, 2070, 4407
Hannah, M. 6666
Hanold, D. 1633, 2319
Hanrahan, R. 7249
Hans, F. 5077, 5083, 7409
Hansen, D. 7081
Hansen, D. R. 1041
Hansen, E. M. 1717, 7763
Hansen, J. G. 7475
Hansen, L. M. 7638
Hanson, J. R. 3375, 5014, 7264-7265
Hanson, P. M. 4395, 8448
Hanson, R. 7454
Hanumantha, B. T. 546, 7865, 7928
Hanušová, M. 4760
Hanzawa, S. 6731
Hanzer, V. 1327, 1585, 3434, 3836
Hao, W. Y. 3336
Hapase, D. G. 2330
Haque, S. E. 3131
Hara, A. 7813
Hara, H. 6803
Hara, M. 3178
Harada, Y. 7730
Haravu, L. J. 7831
Harberger, V. 3154
Harder, D. E. 5847, 5905, 6355
Harder, W. 1781
Hardham, A. R. 732
Harding, R. M. 805, 4251
Hardtke, S. 3422
Hardwick, N. V. 2297
Hardy, G. E. StJ. 7287
Hardy, R. W. F. 684
Hardy, S. A. 870
Hardy, T. N. 21
Hardy, V. G. 1942
Harendra Singh 80, 1816
Hargreaves, J. A. 1289, 2054, 6701, 8094, 8350
Hari, V. 5494
Hari Chand 958, 2462, 3644
Hari Singh 2179, 3799
Härig, R. 3174
Harinikumar, K. M. 5721
Haripriya, S. 6254
Harjit Singh 3533
Harjosdarmo, J. 2589
Harju, P. 6392
Harlapur, S. I. 278
Harley, C. 7403
Harman, G. E. 144, 146, 230, 1296, 1891, 4176, 5000-5001, 5638, 6572, 8186
Harms, H. H. 7214
Harmsen, M. C. 628
Harmuth, P. 7431
Harold, J. F. S. 8673
Harrabi, M. 8332
Harries, H. C. 3061
Harrington, R. 1326, 8706
Harrington, T. C. 3368, 7086
Harris, A. R. 6575, 8583
Harris, D. 1385
Harris, D. C. 4209
Harris, D. L. 4185
Harris, G. K. 7183
Harris, J. 733
Harris, K. M. 1609, 1772
Harris, P. 4033
Harris, R. E. 3626
Harrison, B. D. 350, 1940-1941, 3428, 4026, 8228
Harrison, D. J. 5004
Harrison, J. G. 4527
Harrison, K. 8541
Harrison, L. A. 5162
Harrison, M. D. 1524
Harrison, M. J. 7608
Harrison, W. M. 6305
Harsh, N. S. K. 3132, 6292
Hart, A. D. M. 8111
Hart, G. E. 8357
Hart, L. P. 5906
Hart, M. R. 3308
Harten, D. C. van 6435
Hartill, W. F. T. 512, 8662
Härtling, S. 8422
Hartman, G. L. 1557, 4467, 6127, 7681
Hartman, J. 28
Hartmann, W. 2972
Hartson, S. D. 2853
Hartung, A. C. 8534
Hartung, J. S. 505
Hartung, W. 1741
Haruyama, T. 2078
Harvey, I. C. 7614
Harvey, L. T. 4937
Harvey, M. 806
Hasama, W. 1452, 6747, 7145
Hasan, A. 3478
Hasan, S. 2429, 3207, 7167
Hasegawa, M. 8436
Hasegawa, Y. 3002
Haseloff, J. 4244
Hasey, J. K. 513, 5430
Hash, C. T. 3620
Hashem, A. R. 1892
Hashiba, T. 8157, 8160, 8185
Hashim, I. 1144, 2371, 8746
Hashimoto, A. 6731, 8376
Hashimoto, S. 3295, 3801, 6446
Hashimoto, Y. 6761, 6776
Hasija, S. K. 7172
Hasler, T. 2928, 6856
Hasnain, S. 5650
Hassan, A. A. 5354, 5356
Hassan, A. H. 1096
Hassan, H. M. 2247
Hassan, S. 8477
Hatamoto, M. 8603, 8624
Hataya, T. 5100, 6811
Hatcher, R. 3141
Hateboer, G. 436
Hathaway, J. S. 37
Hatimi, A. 4687
Hatman, M. 1976
Hattingh, M. J. 6938
Hatziloukas, E. 371
Hau, B. 136, 4234, 5943
Haudenshield, J. S. 4755
Haug, M. 384, 948
Haugen, L. M. 8134
Hausbeck, M. K. 5373
Hausner, G. 3413, 5046, 7370
Häussler, K. U. 4170
Havashi, C. 4422
Havel, J. 3889
Havelka, J. 8114
Havens, P. L. 1809
Havey, M. 2207
Havey, M. J. 5371
Havis, N. D. 3576, 8256
Havrylenko, M. 4998, 6325-6326
Haware, M. P. 374, 379, 3703-3704, 5276
Hawes, M. C. 1304
Hawk, J. A. 5922
Hawkes, A. D. 5232

Hawksworth, D. L. 648, 4912, 8862
Haworth, R. H. 7101
Hay, F. S. 4886-4887
Hay, J. M. 1341
Hayakawa, K. 3295, 6446, 7255
Hayakawa, T. 3633, 5502
Hayama, K. 5421
Hayano, Y. 3444
Hayashi, H. 4851
Hayashi, K. 3646
Hayashi, N. 5219, 5303, 5335
Hayashi, T. 1530, 3444
Hayashi, Y. 2186, 5100, 6527, 7413
Hayashida, M. 6803
Hayden, N. J. 994
Haydock, P. P. J. 3476
Hayes, A. J. 1818-1819
Hayes, A. L. 1811
Hayes, C. K. 1296, 4176, 5000-5001, 5638, 6572
Hayes, P. F. 481
Hayes, R. J. 7412
Haynes, K. G. 6056
Hayward, A. C. 4061, 5455, 6800
Hazelwood, D. 3430
Hazen, J. L. 1222
He, C. 2028
He, C. C. 2252
He, G. L. 4622
He, H. X. 5763
He, H. Z. 297
He, J. B. 849
He, L. Y. 3227, 8496-8497
He, P. C. 2252
He, P. X. 8793
He, Q. F. 2593
He, R. F. 2632
He, S. L. 4142
He, S. S. 1303, 3771
He, S. Y. 655, 3243, 4921, 5651, 6391
He, W. L. 848
He, X. C. 6653
He, X. W. 4665
He, Y. Q. 906
Heale, J. B. 1292, 5750
Heap, J. 6360
Hearne, P. Q. 3441
Heath, J. 8053
Heath, M. C. 909, 4052, 7327
Heath, R. 3560
Heaton, J. B. 1014
Hebard, F. V. 8664
Hebbar, K. P. 1413, 1419-1421
Hebert, T. T. 1398
Hedge, R. K. 8356
Hedges, B. R. 7600
Hedges, T. R. 4657
Hedin, P. A. 640, 2288-2289
Hedjaroude, G. A. 6652
Heerden, H. G. van 7889
Hegarningsih, N. 2507
Hegde, R. K. 278, 573, 1087, 2678-2679, 3198, 3547, 4324, 4794, 4865, 5144, 5859, 5877, 5931, 6661, 7153, 7458
Hegde, Y. 2310, 7890
Heiberg, N. 473
Heidenreich, E. 4955
Heikinheimo, R. 4920
Heil, S. 1796
Heiler, S. 2116
Hein, U. M. 2133
Heiniger, U. 1620, 1716
Heino, P. 4775
Heinrich, M. 5697
Heinstein, P. 8740
Heiny, D. K. 1912
Heitefuss, R. 2483, 8669
Heitz, T. 1127, 3936
Hejgaard, J. 2696
Helander, M. L. 5533
Hellgren, M. 4842
Hellmann, G. M. 8726
Hellpointner, E. 7223, 7226
Helm, D. J. 7284-7285
Helm, J. H. 5887
Heluane, H. 502
Helweg, A. 1250, 3305
Helyar, K. R. 1260
Hema Singh 2330
Hemens, E. 4371
Hemenway, C. L. 5497
Hémery-Tardin, M. C. 2299
Hemilä, H. 4920
Hemmat, M. 1296
Hemmen, J. J. van 6436
Hemmer, O. 5088
Hemming, B. 853
Hemming, B. C. 6664
Hempel, K. 3682
Henden, D. R. 8313
Henderson, J. 5089
Hendrick, C. A. 2068
Hendrix, F. F., Jr. 3817
Hendrix, J. W. 3348, 8146
Hendrix, M. 6917
Hendson, M. 1213, 1788
Henis, Y. 2125, 4676
Henken, B. 3917
Hennen, J. F. 362
Hennessy, M. K. 7246
Hennig, J. 3931
Henningson, P. J. 6397
Henriques, M. I. C. 3900
Henry, M. 1980
Henry, M. J. 1238
Henry, S. C. 1194
Henson, D. J. 2992
Henson, J. M. 4283, 5982
Henz, G. P. 8578
Heong, K. L. 318, 7228
Hequet, E. 4780
Heras, B. G. de las 1060
Herbers, K. 1011
Herceghalmi-Pankotai, M. 1830
Herger, G. 6610
Herman, M. 1399, 2643
Hermansen, A. 2170
Hermosín, M. C. 4949
Hermoso, A. 2234
Hermoso de Mendoza, A. 4664
Hermsen, J. G. T. 6828
Hernandez, B. E. 6465
Hernández, C. 196, 1051, 5394
Hernandez, F. 8070
Hernandez, J. C. 2898
Hernández, Y. 2855, 7658
Hernández, Y. A. 2722
Hernández A., L. 6734
Hernández Gutiérrez, A. 7328
Hernández Irineo, J. M. 2338
Hernández López, E. 6251
Hernández R., F. 7022
Hernandez T., T. A. 3094
Herner, A. E. 1806
Herr, L. J. 2184, 2768, 3044
Herrbach, E. 1120, 2209, 3445
Herrchen, M. 4958, 7220
Herrera, J. 4723
Herrera, M. T. 2563, 3935
Herrera-Estrella, A. 112-113, 145, 6538
Herrera-Estrella, L. 3768, 7071, 7390, 8575
Herrington, M. E. 5358
Herrmann, J. V. 6971
Herrmann, R. 1718
Hershberger, R. P. 5094, 5175
Hershenhorn, J. 2268, 4032, 4896
Herskowitz, I. 1418
Hertig, C. 2671
Hertz, J. 6323
Herve, Y. 6085
Herzog, J. 4103
Hesjedal, K. 2947
Heslin, M. C. 4128
Hess, K. M. 1208
Hestbjerg, H. 6265
Hetrick, B. A. D. 4162-4163, 5717
Hettiarachchy, N. S. 855
Hetzler, J. 2018
Heun, M. 283, 3573
Heungens, K. 6869
Hevesi, M. 2230, 2241, 2971
Hewings, A. D. 247, 1372, 4372, 5909, 6637
Hewitt, A. 5682
Hewitt, M. 1024
Heyser, W. 3326
Hiang, T. C. 7403
Hibben, C. R. 7130
Hibberd, A. M. 1014
Hibi, T. 7685
Hibino, H. 5068, 5074, 7532, 8368
Hibrand, L. 5059
Hickey, K. D. 3820, 7740, 8614
Hickey, K. W. 6924-6925
Hicks, P. A. 4900
Hicks, R. G. T. 511
Hicks, S. 805
Hidaka, M. 172
Hidaka, S. 8210
Hidalgo, L. 4723
Hidalgo G., W. 7695
Hidalgo-Gallego, A. 7341
Hidayat, S. H. 3769
Hiddinga, J. 1969
Hide, G. A. 400, 2162, 4510, 6047, 6814, 6820
Hiebert, E. 185, 202, 5327
Higaki, P. 7193
Higgins, K. P. 8314
Higgins, V. J. 8565
Hignight, K. W. 5984
Higuera, A. 2814
Hilal, A. A. 7032
Hilber, U. W. 141
Hilbers, S. 3575
Hilbert, J. L. 5703
Hildebrand, D. C. 14, 1213, 1788
Hildebrand, D. F. 6506
Hilder, V. A. 2434
Hilf, M. E. 7404
Hilje Q., L. 386
Hill, C. B. 6080
Hill, G. K. 6968
Hill, I. R. 8107
Hill, J. H. 3495, 4464, 5245, 7397
Hill, N. S. 1467
Hill, R. 7791
Hill, R. R., Jr. 2757
Hill, R. W. 23
Hill, S. 6038
Hill, S. A. 2621
Hill, S. J. L. 2563
Hill, S. M. 8782
Hille, J. 436
Hillel, J. 6670
Hillman, B. 2290
Hillman, B. I. 3441, 8223
Hillocks, R. J. 2355, 2357, 2359-2361, 2363, 3109, 4498, 6278, 7891
Hiltunen, M. 110
Himmel, P. T. 247, 6637
Himmelsbach, D. S. 3318
Hims, M. J. 133, 8189, 8286
Hindorf, H. 4806
Hindumathy, C. K. 7521
Hine, R. B. 1543
Hingand, L. 6576
Hinojosa Rangel, J. C. 7661
Hipp, B. W. 1729
Hippeli, S. 4846
Hipskind, J. 3315, 3622
Hirae, H. 7813
Hirai, T. 6669
Hiramatsu, M. 6717
Hirano, M. 6725
Hirano, S. S. 6787
Hirano, T. 5312, 5579
Hirano, Y. 6726
Hirao, I. 5815
Hirao, J. 2568
Hirata, A. 7685
Hirata, L. T. 8310
Hiratsuka, K. 8211
Hiratsuka, Y. 2393, 4035, 6311
Hirayae, K. 7685
Hiremath, P. C. 525, 573, 1035, 1087, 1159, 2092, 2784, 3198, 4865, 4880, 8356, 8685
Hiremath, R. V. 3609, 3611
Hiremath, S. T. 515
Hiremath, S. V. 1159, 3547
Hiroma, K. 5397
Hirota, K. 8599
Hirota, N. 8160
Hirota, Y. 6717
Hirsch, G. 2531, 3217
Hirukawa, T. 5959
Hiruki, C. 214, 1953, 5073, 5098
Hislop, E. C. 4111, 5881
Hitchings, D. R. 5662
Hjelmroos, M. 4193
Hjortso, M. A. 611
Ho, C. T. 4752
Ho, H. H. 763, 1917
Ho, I. 4968
Ho, K. S. 8476
Ho, L. C. 3779
Ho, M. H. 6430
Ho, M. L. 2255
Ho, N. K. 7228
Ho, R. 6081
Hoagland, R. E. 1762, 4897
Hoang, D. N. 4297
Hoang Dinh Dinh 4438
Hoang-Van, K. 6182
Hoch, H. C. 4477
Hock, B. 1278, 3161, 8069
Hock, J. 1425
Hockenhull, J. 292, 337, 644, 5776
Hocking, A. D. 837, 4190
Hockless, D. C. R. 6537
Hodge, N. C. 7848
Hodges, C. F. 4452, 8396
Hodges, C. S., Jr. 4838
Hodges, L. 4057
Hodges, S. C. 2365
Hodgson, A. S. 3118
Hodgson, C. J. 8467
Hodgson, R. A. J. 3933
Hodson, A. 3865, 6974
Hoekstra, J. A. 7232
Hoekstra, R. 980, 7641
Hoekstra, W. P. M. 669
Hoes, J. A. 5519
Hofer, J. M. I. 1937
Höfer, M. 7315
Hoff, R. J. 598
Hoffman, J. 7081, 8754
Hoffman-Hergarten, S. 5775
Hoffmann, E. 8120
Hoffmann, G. 6230
Hoffmann, G. M. 2296, 2647, 2677, 4521, 6657, 7457, 7484
Hoffmann, K. H. 1959
Höflich, G. 1959, 5125
Hofstein, R. 8651
Höfte, M. 6869, 8027
Hohl, H. R. 4469
Hohmann, U. 1994
Hohn, B. 2048, 2574, 7190
Hohn, T. 1322, 1945
Hohn, T. M. 102, 4769
Højer, P. 7436
Hojo, H. 444, 3792
Hokama, K. 7149
Hokao, H. 6840
Holcomb, G. E. 4875, 7127, 8808
Holden, D. W. 7329-7330
Holden, P. 2455
Holden, P. W. 8055
Holden, W. T. C. 42, 8046
Holdenrieder, O. 1687, 7120
Holderness, M. 558
Holey, N. R. 501, 3111
Holguin, G. 7893
Hölker, U. 7315
Holland, M. 8506
Holland, N. 2540
Holland, P. T. 4082
Hollier, C. A. 4436, 7535
Hollihn, K. U. 8073
Hollingsworth, R. 5906
Hollingworth, R. M. 1223
Hollins, T. W. 822, 3377, 3532, 5849
Hollomon, D. W. 6532, 6687, 8151, 8318
Holloway, B. W. 6404

Holloway, P. J. 3560, 3580, 6429
Holm-Jensen, A. G. 4365
Holmes, G. J. 6989
Holmström, K. O. 4775
Holotík, Š. 4954
Holt, J. 8365
Holub, E. B. 4230
Hołubowicz, R. 2866
Holy, S. 4260
Holz, G. 466
Homma, Y. 7548, 8596
Honda, K. 352
Honda, Y. 2567
Honervogt, B. 1138
Hong, J. 1324, 1449
Hong, J. S. 7332-7333
Hong, K. S. 3597, 6700, 7844
Hong, N. 5387
Hong, R. B. 8698
Hong, W. F. 8830
Hong, X. 6060
Honkura, R. 6763
Honrao, B. K. 2996, 3858, 7460
Honrubia, M. 2523, 2549, 3335, 4138
Hood, I. A. 5528, 7939
Hooda, I. 2666, 2819, 4507, 8461
Hoogerbrugge, A. 5618
Hoogerbrugge, I. 7203
Hoogerkamp, D. 8066
Hoogerwerf, A. 1735
Hoogeweg, C. G. 3306
Hoogland, A. E. 6792-6793
Hook, I. 1885
Hooker, J. 6386
Hooker, M. E. 4677
Hoomand, N. 5148
Hoorne, D. 6603
Hoorne, H. 7239
Hooykaas, P. J. J. 5646, 7189
Hopkins, C. M. 2750
Hopkins, D. C. 4447
Hopkins, W. L. 7204
Hoppe, H. H. 1091
Hopper, M. L. 4080
Hoque, E. 4807
Hoque, M. R. 6437
Horak, E. 8129
Hord, M. J. 1020
Horemans, S. 8709
Horev, B. 6207
Horgen, P. A. 7327
Hori, K. 7407
Hori, N. 8456
Horibe, Y. 7147
Horino, O. 4424, 6900
Horiuchi, K. 3371
Horiuchi, M. 3371
Horiuchi, S. 4289
Hormilla, S. 2502
Horn, K. 3161
Hornby, D. 5849, 8313
Horner, I. J. 3822
Hornok, L. 6671
Hornsby, A. G. 1827, 8056
Horovitz, D. 2131
Horst, R. K. 5569, 7124
Horton, D. L. 3817
Horton, P. R. 347
Horton, R. R., Jr. 7709
Hortyński, J. A. 6171
Horváth, J. 6033, 6582
Horváth, Z. 1478
Hosagoudar, V. B. 7360, 7375, 8783
Hosein, F. 4266
Hoshino, N. 5959
Hosking, J. R. 8846
Hosmani, R. M. 6824
Hosokawa, D. 8206, 8481, 8588
Hossain, I. 2681, 4347
Hossain, M. A. 119
Hossain, M. M. 119, 439
Hossain, M. S. 1615
Hoste, B. 6412
Hostettmann, K. 5698, 7263, 8120
Høstgaard, M. 8178
Hosztafi, S. 3289
Hota, A. K. 5278
Hotchkiss, J. H. 2476
Hotchkiss, M. W. 4694
Hötte, B. 4935
Hou, C. L. 6313
Hou, Y. M. 3769
Hough, A. 6209
Houghton, J. M. 6664
Houx, N. W. H. 1828
Hovde, D. A. 1222
Hoveland, C. S. 343, 3663, 5978, 7567, 8402
Hovmøller, M. S. 4368, 5864, 5892
Howard, C. M. 1063, 7770
Howard, D. D. 6767
Howard, K. M. 4236, 6357, 6369, 8847
Howard, R. J. 909, 948, 2098
Howell, S. H. 1938, 4242
Howes, N. K. 873
Howitt, C. J. 6759
Howitt, R. L. J. 4011
Howlett, B. J. 7317
Howling, G. G. 8706
Howse, G. M. 3121
Höxter, H. 3591, 6691, 7494
Hoy, J. W. 1907, 6256, 8701
Hoyland, B. F. 3177
Hoyle, R. 4075
Hoyte, S. M. 7790
Hrabak, E. M. 6789
Hribar, J. 6928
Hršelová, H. 96
Hruszka, M. 1489
Hseu, S. H. 6128
Hsiang, T. 688
Hsieh, P. T. 5484
Hsieh, T. F. 1297, 7140
Hsu, C. S. 4715
Hsu, C. Y. H. 7925
Hsu, H. T. 5797, 8224
Hsu, S. T. 5927, 6128, 8830
Hsu, Y. H. 3561, 7161
Hu, F. P. 4870
Hu, G. G. 7200, 8391
Hu, H. 4799
Hu, J. 1969
Hu, J. C. 5243
Hu, J. S. 7142
Hu, N. Y. 7544, 8373
Hu, Q. D. 3546
Hu, W. Z. 1336
Hu, X. W. 8648
Hu, X. Y. 6653
Hu, X. Z. 2557
Hu, Y. H. 277
Hu, Y. Q. 8121
Hu, Y. X. 5781
Hu, Z. 8121
Huang, B. L. 7200, 8391
Huang, C. H. 3789
Huang, C. L. 2061
Huang, D. 7410
Huang, D. C. 5170-5171, 5883
Huang, D. F. 3549
Huang, D. I. 2077
Huang, D. N. 911
Huang, F. 7539
Huang, F. Y. 5208
Huang, H. 7066
Huang, H. C. 735, 1472, 1626, 1631, 3243
Huang, J. 5654
Huang, J. H. 5174, 5510
Huang, J. Q. 8322
Huang, J. W. 6604, 7833-7834
Huang, L. 5735
Huang, M. C. 5493
Huang, Q. J. 2394
Huang, R. R. 906
Huang, R. Z. 8390
Huang, S. H. 4679
Huang, S. P. 4141
Huang, S. W. 319
Huang, T. C. 8577
Huang, T. Y. 3561, 7161
Huang, W. F. 2557, 2686, 3546
Huang, X. M. 5167-5168, 5883
Huang, X. T. 3897
Huang, Y. 663
Huang, Y. C. 5715, 6477
Huang, Y. H. 7681
Huang, Y. J. 266, 2295, 3540, 5856, 5872
Huang, Z. H. 8668
Huang, Z. S. 8595
Huang Hsu, C. Y. 7925
Huante, P. 4152, 7309
Hubbard, J. C. 8519
Huber, D. M. 3044, 6626
Huber, G. 4343
Huber, J. 745
Huber, R. 6323
Huberdeau, D. 3828
Hubert, E. 7636
Hubert, N. 6845
Hubstenberger, J. F. 4542
Hudelson, B. D. 6009
Hudspeth, D. S. S. 4181
Hudspeth, M. E. S. 4181
Huet, J. C. 7320, 7885, 8731
Hughes, F. L. 8212
Hughes, G. 1930
Hughes, G. R. 269
Hughes, J. d'A. 8714
Hugouvieux-Cotte-Pattat, N. 1212, 8032
Hugueney, R. 1061, 4628, 7757
Huguenot, C. 4500
Huh, B. L. 2181
Huhndorf, S. M. 1915, 3407, 7383
Huiet, L. 1331, 4256, 5087
Huiskamp, T. 5239, 6854
Huisman, M. J. 4513
Huitrón, C. 7337
Hulbert, S. H. 1966, 3597, 3999, 6700
Hull, R. 806, 900, 1333, 1341, 1949, 4411, 8369
Hull, R. J. 4755
Hull, S. K. 5538
Hulluka, M. 829
Hulluku, M. 8289
Humpherson-Jones, F. M. 8514
Humphrey, A. E. 7136
Humphreys, S. P. 6640
Hundal, J. S. 6879
Hundeshagen, B. 2513
Hung, C. C. 5511
Hunger, R. M. 833, 7449
Hunshal, C. S. 4318
Hunt, A. W. 469, 3864, 7684, 7750, 7791-7792
Hunter, G. F. 1226
Hunter, J. E. 6849
Hunter, M. N. 3323
Hunter, T. 7922
Hunter, W. B. 2584, 4240, 5351
Huo, J. S. 8616
Huong, G. J. 3155
Hur, J. M. 440
Hurle, K. 88
Hurst, H. L. 2979
Husain, A. 1183
Husain, S. I. 956, 1083-1084, 7620, 8659
Husby, J. 7436
Huss, H. 1170
Hussain, A. 7637
Hussain, M. D. 6437
Hussain, S. 2138, 3698
Hussain, S. S. 7633
Hussain, T. 2304
Hussein, F. N. 2175
Hussin, M. Z. 2316
Hussnain, S. ul 5650
Husted, K. 7446
Hustert, K. 3296
Huszár, J. 4339
Hutcheon, J. A. 8323
Hutcheson, S. W. 6409
Hutchinson, R. L. 3604
Hutchison, L. J. 7288
Huth, W. 296, 862, 874
Hutson, J. L. 84
Huttinga, H. 2980
Hutton, M. 639
Huttunen, S. 7930
Hutzler, P. J. S. 4807
Huynh, Q. K. 1835
Hwang, S. C. 4715
Hwang, S. F. 2098, 2804, 4861
Hwang, S. J. 8476
Hyakumachi, M. 114
Hyde, G. J. 732
Hyde, K. D. 589, 3974, 5458-5459, 5589
Hyman, L. J. 6062
Iacobellis, N. S. 3248
Ialongo, M. T. 1914, 2238, 6348
Iba, Y. 3002
Ichihara, A. 7860
Ichikawa, H. 3767
Ichikawa, K. 7697
Ichimoto, I. 3291
Ichinose, Y. 951, 8455-8456
Ichitani, T. 2408, 7389
Ide, K. 6954
Idicula, S. P. 2368
Ieki, H. 7186-7188, 7786, 8029, 8636
Iengo, C. 6852
Ierna, A. 2892
Ietswaart, J. H. 4991
Iezzoni, A. F. 5414
Iftikhar, K. 2809
Igarashi, M. 3883
Igarashi, T. 6300
Igbal, S. M. 3698
Igbedioh, S. O. 1822
Iglesias, M. M. 3106
Ignash, Ya. 6132
Ignătescu, I. 1976, 3460
Igrc, J. 3494
Iguchi, K. 5231
Igue, T. 504, 8425
Iida, Y. 4356
Iijima, A. 5398, 5402-5404, 5428
Ijiri, T. 8185
Ikaunietse, L. 6132
Ikeda, H. 1591
Ikeda, R. 2084, 2731, 4409, 5947, 5969
Ikeda, T. 7676
Ikeda, Y. 3292
Ikegami, H. 114
Ikegami, M. 8438
Ikin, R. 1065
Ikka, T. 7250
Ikotun, T. 967
Ilag, L. L. 95
Ilango, K. 5514
Iliescu, H. 1628
Ilieva, E. I. 3184
Ilyas, M. B. 2806, 2809, 3077, 3084
Ilyina, T. V. 5082
Ilyukhina, M. K. 1405
Imada, J. 7188, 7786
Imai, H. 4557
Imanaka, M. 7254
Imanishi, Y. 6411
Imbroglini, G. 4609
IMPACT AgBioBusiness 143
Impson, J. W. 21
Imrie, B. C. 6802
Imsande, J. 3675
In, M. S. 7704
Inada, M. 1458, 6840
Inagaki, K. 7533, 7970, 8389
Inagan C., M. 2786
Inamdar, N. M. 1665
Incitec Ltd. 76
India, Coffee Board Research Department 7862
Indian Institute of Horticultural Research 6973
Indian Society of Mycology and Plant Pathology 5623
Indian Society of Plant Pathologists 8864
Indira, K. 5224
Indira, S. 3624
Indra Hooda 2666, 2819, 4507, 8461
Indrani Ghosh 1140
Indu Jalali 7680
Indu Sharma 8300
Ineichen, K. 2497

Infante, J. 1024
Ingels, C. 2251
Ingen, C. W. van 3415
Ingham, J. L. 2482
Ingle, M. 2221
Ingleby, K. 6475-6476, 7290
Inglis, D. A. 8490
Inglis, G. D. 1494
Ingold, C. T. 2539
Ingole, O. V. 3904
Ingoot, D. 6832
Ingram, D. S. 426, 3364, 4702, 5018
Ingram, W. A. 1680, 1682
Iniesta-Sanmartín, E. 1241
Inman, A. J. 1092, 8672
Innes, J. L. 3970
Innes, N. L. 4272
Innes, R. W. 1201
Inoue, A. K. 5100, 6811
Inoue, H. 6444
Inoue, I. 1052
Inoue, S. 6444
Inouye, N. 7972
Inouye, T. 7965
In't Veld, N. 1444
International Center for Agricultural Research in the Dry Areas 638, 3213
International Group of National Associations of Manufacturers of Agrochemical Products 2452
International Mycological Institute 3389
International Programme on Chemical Safety 8088
International Society for Horticultural Science 3813
Intini, M. G. 1305, 7331
Invernizzi, C. 2380
Ioannou, M. 4663
Ioannou, N. 4663, 5369
Iovaĭshene, Z. 2555
Ipach, U. 3853
Ipinza, R. 7102
IPM Practitioner 7230
Ippolito, A. 3874
Iqbal, S. M. 2807
Iqbal Singh 3880, 4506
Iran, Iranian Phytopathological Society 1771
Ireland, G. 6199
Irey, M. S. 1112
Irie, H. 8619
Iriguchi, Y. 6803
Iriki, N. 4349
Irlam, I. 6888
Irulappan, I. 455, 1073, 2883-2884, 4570, 6093
Irwin, J. A. G. 294, 363, 2763, 3414, 4462, 6758, 6802, 7005, 7350
Irwin, M. E. 1977
Isaac, S. 4905
Isaev, R. F. 249
Isard, S. C. 1977
Isenring, H. P. 8102
Ishibashi, N. 3796, 7335
Ishigami, S. 5210
Ishiguro, K. 5219, 8376
Ishihama, A. 5091
Ishii, H. 1052, 2963-2964, 6190
Ishii, K. 8370
Ishii, M. 8588
Ishikawa, H. 6449, 7537
Ishikawa, K. 5578
Ishikawa, S. 5334, 5364, 5421-5422
Ishikura, H. 8599
Ishikuri, S. 8712
Ishimama, A. 4258
Ishioka, N. 4568
Ishizaki, F. 6530
Ishizuka, M. 5312
Isikov, V. P. 3396, 5564, 6289
Islam, M. H. 4405
Islam, M. R. 3120, 7077
Islam, S. J. 916, 1018
Islam, T. 119, 439
Ismagilov, R. R. 4376
Ismail, H. 6283
Ismail, M. A. 4777
Ismail Hashim 1144
Ismailov, È. M. 3945
Isoda, T. 1599
Isogai, A. 1217, 6028
Isomura, Y. 8389
Israeli Phytopathological Society 8005
Issa, E. 5222
Iswanto, A. 551
Itakura, J. 6600
Italy, Südtiroler Beratungsring für Obst- und Weinbau 456
Itendra Deb 7980
Itho, T. 7670-7671
Ito, K. 5068
Ito, M. F. 367, 2812, 5262, 6772, 6778, 7033
Ito, S. 4851
Ito, Y. 3284, 5210
Itoh, K. 3633
Itoh, Y. 7797
Ivakhnenko, A. G. 2558
Ivancea, V. 3460
Ivancia, V. 2309
Ivanov, I. 4261
Ivanov, V. A. 1501
Ivanova, D. G. 4520
Ivanova, G. I. 1514
Ivanova, N. I. 6607
Ivanović, D. 1414, 4380, 5910, 6160
Ivanović, M. 4380, 6160
Ivanushkina, N. E. 4853
Ivanyuk, V. G. 385, 405, 2163
Ivaşcu, A. 7749
Ivens, G. W. 4076
Ivie, G. W. 680
Iwanaga, M. 6827
Iwanami, T. 3014
Iwanami, Y. 5397
Iwano, M. 327, 4422, 6654, 6721
Iwase, K. 702, 4969
Iwase, T. 5293-5294
Iwata, N. 2084
Iwu, L. N. 5337
Izadpanah, K. 1104, 4817
Izawa, T. 3633
Izmaĭlova, L. M. 2212
Izmalkova, A. G. 845
Izquierdo, A. 3103
Izquierdo, J. I. 7248
Izumi, S. 1456, 1531, 6525
Izvekova, L. I. 1028
Jabaji-Hare, S. H. 2544
Jach, G. 1131
Jackai, L. E. N. 8467
Jackson, A. M. 4174
Jackson, A. O. 1406, 1667, 6587, 8195
Jackson, D. 8266
Jackson, D. P. 3776
Jackson, E. P. 4063
Jackson, G. 7657
Jackson, G. N. 8085
Jackson, G. V. H. 989-991, 1181, 4011, 4535
Jackson, J. F. 128
Jackson, L. A. 7197
Jackson, L. F. 2676
Jackson, M. A. 1763, 4186, 8164
Jackson, P. J. 2344
Jackson, S. M. 3556
Jacob, A. 3338, 8136
Jacob, C. K. 2368, 5524
Jacob, F. 7883
Jacob, W. 4964
Jacobi, A. 4364
Jacobi, I. 866
Jacobi, J. C. 8692
Jacobi, K. K. 1608
Jacobi, V. 8784
Jacobi, W. R. 6324, 8794-8795
Jacobo Cuellar, J. L. 6220, 6921
Jacobs, D. 113
Jacobs, J. L. 1568
Jacobs, T. 2000
Jacobsen, B. J. 4909, 7500
Jacobsen, H. J. 2800
Jacobsen, S. 2696
Jacobson, K. M. 6469, 6489
Jacobson, P. J. 6489
Jacquart-Romon, C. 1572
Jacyno, J. M. 3318
Jadari, R. 5295
Jaen Contreras, D. 4982
Jaenz, A. 3106-3107
Jagadeeswar, P. 6552, 7366
Jagadish, M. N. 7410
Jaganathan, R. 7841
Jagdish Chandra 5449
Jagdish Kumar 374, 954
Jager, E. S. de 2279
Jäger, H. J. 1496
Jaggard, K. W. 534
Jäggi, W. 2849
Jagnow, G. 1959
Jagpal, R. 4121, 4168
Jahoor, A. 3575, 4364, 7488-7489
Jailloux, F. 2256, 2880
Jain, A. K. 5201
Jain, R. K. 3637
Jain, S. C. 7505
Jainath 4389, 8447
Jainkittivong, A. 939
Jaiser, H. 2803
Jakešová, H. 1475
Jakobek, J. L. 5264-5265
Jakobsen, H. L. 5685, 7236, 7816
Jakobsen, I. 5733, 8142
Jakobsen, J. 5837
Jakovljević, Z. 6057
Jalal, M. A. F. 7659
Jalali, B. L. 958, 2529
Jalali, I. 7680
Jalink, L. M. 8130
Jamalius 2417
Jamaluddin 4821, 6292, 8781, 8822
Jamaluddin, S. 5629
Jamart, G. 7251
Jambunathan, R. 314, 5474
James, B. L. 8756
James, C. S. 6701, 8094
James, D. 1347, 4623, 5406, 6162
James, J. P. 1885
James, R. L. 5554
Jamir, Y. 3527
Jan, C. C. 8674-8675
Jan, F. J. 5079
Janardhanan, K. K. 1183
Janati, L. 4712
Janda, M. 6586
Jandaik, C. L. 8835
Jang, H. I. 3825, 4629
Jang, J. C. 4695
Jani, S. M. 3756
Janisiewicz, W. J. 2222, 2225, 3850, 5560
Janjić, Č. 3834
Janke, C. 880
Jánošová, M. 868, 2698
Janse, J. 2956
Janse, J. D. 3244, 7191
Jansen, J. 7968
Jansen, R. C. 2959
Janssen, A. 1154, 7921
Janssen, J. A. M. 7208
Jaouen, C. 1119
Japan Pesticide Information 22
Jaramillo-Maranon, M. 6442
Jardin, E. A. D. 5982
Jardine, D. J. 308
Järlfors, U. 1130, 2102
Jarma Orozco, A. 2721
Jarnail Singh 6878
Jarošík, V. 936, 5987
Jarosz, A. M. 3205
Jarowaja, N. 4730
Jarret, R. L. 16, 1618, 3252
Jarstfer, A. G. 6486
Jarvis, W. R. 2215, 5350, 8598
Jasbir Kaur 3895
Jaspars, E. M. J. 5055
Jasper, D. A. 5738
Jastrow, J. D. 4119
Jasvir Singh 5950
Jaun, B. 3621
Javoy, M. 3784
Jay-Allemand, C. 1164
Jayachandran, K. 5717
Jayanthi, S. 7831
Jayaraj, S. 8243
Jayarajan, R. 323
Jayaram, C. 5245
Jayarathnam, K. 2368, 5523-5524
Jayasankar, N. P. 1632
Jayasekhar, M. 3065
Jayasinghe, C. K. 578, 6284
Jayasinghe, U. 2823
Jayaswal, R. K. 4060, 4926
Jaynes, J. M. 387, 1962, 5510, 5642
Jeandet, P. 6186
Jedel, P. E. 5887, 7485
Jeffers, D. P. 8741
Jefferson, P. G. 347
Jeffries, P. 1256, 4680, 6618
Jeger, M. J. 2358, 6595, 6617, 6978, 7174
Jeitner, J. 8287
Jelínek, J. 4889
Jelkmann, W. 3815
Jellinek, S. D. 8058
Jellis, G. J. 4509
Jenkins, D. G. 7260
Jenkins, S. M. 7608
Jenkins, T. 3263
Jenkinson, P. 3512
Jenkyn, J. F. 291, 2702
Jennings, D. L. 4632
Jenns, A. E. 2346, 5739
Jensen, D. F. 292, 337, 449, 644, 746, 4603, 5776
Jensen, E. C. 7103
Jensen, H. P. 4365, 6678
Jensen, J. 4365
Jensen, J. S. 4106
Jensen, K. F. 604
Jensen, R. A. 6403
Jensen, S. G. 167
Jerkeman, T. 619
Jermyn, W. A. 4483
Jeske, H. 194, 8218
Jespers, A. B. K. 5693
Jessen, C. 1969
Jeswal, P. 5127
Jeswani, M. D. 6822
Jeutong, F. 5209
Jevtić, S. 2051-2052
Jewers, K. 4397
Jeyarajan, R. 311, 313, 893, 1076, 1184, 2813, 4884, 6350, 7343, 7517, 7820, 8650, 8852
Jha, P. K. 5976
Jhorar, O. P. 2009
Jhune, C. S. 5604
Ji, B. H. 2083
Ji, M. F. 2083
Ji, R. Z. 2203
Ji, X. Q. 4016
Jia, J. S. 8581, 8594
Jia, T. X. 5321
Jiang, C. L. 2428
Jiang, C. X. 5250, 6092, 6118
Jiang, D. R. 8787
Jiang, G. L. 2683
Jiang, H. 320
Jiang, H. L. 2067
Jiang, J. 5854, 5858
Jiang, J. P. 3362
Jiang, J. Z. 1313, 1899
Jiang, L. H. 8226
Jiang, P. H. 5484
Jiang, R. Z. 4331
Jiang, X. C. 4000
Jiang, X. F. 5387
Jiang, X. H. 657
Jiang, Y. 6863
Jiang, Y. F. 8399
Jiao, H. J. 1081
Jiao, Y. X. 7066
Jilka, J. 188
Jilka, J. M. 5097
Jiménez, A. 7010

Jiménez, B. 1711, 1913, 3721
Jiménez, F. 442
Jiménez, J. M. 442
Jiménez Díaz, F. 6959-6960
Jimenez-Diaz, R. M 379
Jiménez Mora, J. M. 6125
Jimenez-Moraila, B. 3768
Jin, J. H. 2638
Jin, J. T. 5188
Jin, K. S. 7560
Jin, M. X. 3017
Jin, M. Z. 8372
Jin, R. C. 4166
Jin, S. F. 1533
Jin, S. Z. 4783
Jin, X. 1891, 3669
Jin, X. X. 5236, 5638
Jin, X. Z. 4665, 8648
Jin, Y. 2690, 7487
Jin, Y. D. 4410
Jin, Z. I. 8567
Jindal, K. K. 3689, 3810, 8621
Jing, J. X. 4331
Jirátko, J. 2609
Jite, P. K. 3977
Jitendra Mohan 3624
Jitendra Pal 6884
Jlibene, M. 2673
Joaquim, T. R. 6573
Job, D. 6472
Jobidon, R. 4033
Joerger, M. C. 8310
Joerger, R. D. 1208
Johal, G. S. 2064, 2716, 3594
Johansen, E. 5809
Johanson, A. 6978
Johansson, F. 5318
Johansson, M. 1168, 3151, 3157-3158
John, S. E. T. 8785
Johne, S. 8422
Johnk, J. S. 4197
Johnsen, M. G. 950
Johnson, A. H. 3164
Johnson, A. W. 1360, 4767, 7231, 7355
Johnson, D. 8262
Johnson, D. A. 428, 2830, 4526, 8545
Johnson, D. R. 2754, 4893, 7112
Johnson, E. L. 678, 7216
Johnson, G. C. 1691
Johnson, I. G. 5551
Johnson, J. D. 3006
Johnson, J. E. 7406
Johnson, J. W. 2701
Johnson, K. B. 1623, 5462, 7729
Johnson, L. E. B. 8309
Johnson, L. M. 5606
Johnson, N. C. 1272, 4154
Johnson, R. 4307, 4558
Johnson, W. C. 1135
Johnsson, L. 7464
Johnston, D. J. 741, 5298, 5751, 6165
Johnston, H. 2477
Johnston, H. W. 7450
Johnston, P. R. 127, 592
Johnston, S. A. 6440-6441, 8084
Johnston, W. J. 8401
Johnstone, D. R. 5672
Johnstone, K. 3364, 4702, 5018, 5314, 6848
Johri, B. N. 4994, 4997
Joisson, C. 808-809
Jokela, E. J. 7116
Jokeš, M. 1506, 3790, 7817
Jolánkai, M. 1392
Jolly, C. A. 5070, 5086
Jonard, G. 803, 1346, 3445
Jonasson, T. 1089
Jonathan, E. I. 3081
Jones, A. L. 7, 1048, 2223-2224, 5409, 8623
Jones, A. T. 643, 1062
Jones, C. G. 1683
Jones, C. J. 1684
Jones, D. 3695, 8541
Jones, D. A. 6864, 7679
Jones, D. B. 1459, 4434
Jones, D. G. 7176
Jones, D. R. 4357, 6687, 8265
Jones, E. R. L. 3568
Jones, J. B. 7183, 7199
Jones, J. D. G. 4275, 6864, 7679, 8541
Jones, J. P. 4831
Jones, K. A. 6595
Jones, K. M. 3829
Jones, L. E. 673, 1204
Jones, M. C. 1341, 1949
Jones, M. G. K. 7584, 8473
Jones, M. J. 5924
Jones, M. M. 6121
Jones, M. P. 5209
Jones, O. W. 8515
Jones, P. 267
Jones, R. A. C. 925, 1476, 2094, 4458, 5286, 7584
Jones, R. G. 8098
Jones, R. K. 4197, 4857
Jones, R. L. 3267
Jones, R. W. 1667
Jong, M. D. de 8849
Jong, S. C. 1917
Jong, W. de 210
Jongbloed, R. H. 5707-5708
Jongebloed, P. H. J. 5332
Jongedijk, E. 973, 4513
Jongerius, M. C. 5304
Jönsson, J. Ö. 3506
Joos, H. J. 2835
Joosten, M. H. A. J. 811, 2195, 4585, 6096
Jordá, C. 8587
Jordan, C. M. 4525
Jordan, M. A. 5979
Jordan, R. 187, 201
Jordan, R. L. 5797
Jordan, V. W. L. 835, 5881, 8323
Jørgensen, F. L. 4106
Jørgensen, J. H. 234, 2030, 2694, 3558, 3570, 4363, 6678
Jørgensen, L. N. 268, 2639, 5685, 5865-5866, 5899, 7236, 7446, 7448, 7473, 7475, 8285
Josan, J. S. 3859
Jose, D. 3866
Joseph, A. 5524
Joseph, D. M. 7194
Joseph, K. 5523, 5525
Josepovits, G. 4108
Joshee, S. P. 3965
Joshi, H. K. 7696
Joshi, H. U. 6999
Joshi, K. R. 8699
Joshi, M. S. 1445, 7151
Joshi, N. C. 7419
Joshi, P. K. 4485
Joshi, R. C. 7419
Joshi, R. D. 7039
Joshi, R. L. 5801
Joshi, S. R. 4981
Joshi, U. N. 1429
Joshi, V. 5801
Joshi, V. R. 306
Joslin, J. D., Jr. 3162
Jouanin, L. 7185
Joubert, M. H. 7805
Jourdain, E. L. 447
Jovaišienė, Z. 2555
Jovellana, M. D. 4683
Joye, G. F. 4028
Judelson, H. S. 734, 7319
Judge, J. M. 2993
Juhásová, G. 1695
Julca Otiniano, A. 4682
Julian, A. M. 3613
Julien, J. 116
Julien, M. H. 1761
Junaid Mukhtar 6022, 6026
Jung, C. 5501
Jung, G. 3357
Jung, J. L. 4754
Jung, S. H. 8736
Jung, Y. T. 5205
Junianto, Y. D. 560, 2342
Junker, K. 7476
Junod, P. 1700
Junqueira, N. T. V. 2366-2367
Jupin, I. 1346
Jureša, B. 7087
Juretić, N. 6272
Jusoh, M. M. 7228
Juzwik, J. 7944, 8786
Jyotsna Sharma 3809, 5696
Ka, K. H. 7303-7304, 7307
Kabadayı, H. B. 568
Kabaluk, J. T. 3000
Kable, P. F. 1282
Kaçar, E. 7781
Kaczmarek, U. 5290
Kadambavanasundaram, M. 2737
Kadioğlu, A. 1499
Kadir, A. A. S. A. 6378
Kadish, D. 399
Kadlec, Z. 4827
Kadlicskó, S. 7417
Kado, C. I. 4064, 4915
Kadota, M. 7254
Kagan, F. 220
Kaganskaya, V. V. 1541
Kagiwata, T. 454, 2922, 6137
Kahmann, R. 108, 884
Kairova, G. N. 2955
Kais, A. G. 4831
Kaiser, R. 2688
Kaiser, S. A. K. M. 890, 1423, 7900, 8744
Kaiser, W. J. 375, 2135, 2140, 2789
Kaith, D. S. 8609
Kaiza, D. A. 3060-3061
Kaji, K. 6895-6896, 6948, 8436
Kajihara, H. 7959
Kajiyama, T. 6262
Kakade, B. R. 7962
Kakareka, N. N. 3448
Kakau, J. 1091
Kakkar, R. K. 3406
Kakutani, K. 3316, 6411
Kakutani, T. 3444
Kalafatoğlu, H. 2961
Kalaimani, T. 2328
Kalda, T. S. 2182
Kale, P. B. 6114
Kale, R. D. 5721
Kale, V. D. 2253
Kalha, C. S. 2129, 4460, 7621, 8388
Kalia, N. R. 8446
Kalia, V. 6016
Kalinenok, N. P. 1501
Kalisz, H. M. 152
Kalisz, M. E. 152
Kalkandelen, A. 4576
Kalloo 5328, 7680
Kalloo, G. 4480
Kalmowitz, K. 1176
Kalode, M. B. 5939
Kalra, A. 3730, 4001, 4869
Kalsi, P. S. 4098
Kalthoff, B. 1585
Kaluz, S. 3857, 6962
Kalyani, K. B. 7927
Kamakura, T. 3294, 6444
Kamal 1905, 3398, 3742
Kamal, M. 2327
Kamala Uniyal 4124
Kamanna, B. C. 1186, 7865, 7928
Kamara, A. M. 2305
Kamble, S. D. 8682
Kamdar, H. 4064
Kameya-Iwaki, M. 2567, 5364, 8210, 8589
Kamikoga, A. T. M. 3601
Kamińska, M. 5075, 5583
Kaminski, J. 4164
Kamiunten, H. 7746
Kamiunten, J. 1203
Kamiya, Y. 5293
Kamla Uniyal 4983, 7909
Kamlesh Mathur 5273, 5374-5375
Kammen, A. van 5063, 8468
Kamoen, O. 4038, 5749, 5753, 5757
Kamoshita, K. 7256
Kamoun, S. 3467, 4064
Kamp, B. J. van der 2387, 7114
Kamp, J. A. L. M. 5793
Kämpfer, P. 3735
Kampp, J. 5798
Kan, J. A. L. van 437, 811, 2195, 4585, 5331, 5745-5746, 6096
Kanakaratne, N. S. 1082
Kanatani, R. 288, 3555
Kandeel, N. M. 2189
Kane, R. T. 3176
Kaneko, H. 7256
Kaneko, S. 4180
Kanevski, I. F. 5499
Kang, L. Y. 2594, 3095
Kang, M. J. 7705
Kang, M. S. 889, 1437, 3604, 3645, 3880, 4432, 4506, 4669, 4681, 4688
Kang, S. L. 3546
Kang, S. W. 1107
Kang, Y. W. 8497
Kang, Z. 846
Kaniewski, W. K. 175
Kannaiyan, J. 5470
Kannan, K. 4156
Kannan, N. 546, 7863, 7865, 7928
Kano, H. 2078
Kano, T. 3014
Kansal, S. 8510
Kantzes, J. G. 5367
Kanuga, N. 7329-7330
Kanyion, P. 3046
Kanyuka, K. V. 1332, 5081
Kanzaki, H. 8417
Kanzawa, K. 8712
Kao, C. C. 4930, 5104, 5175
Kao, C. W. 4867
Kaper, J. M. 2888, 5055, 5324, 5326, 6091
Kapgate, D. J. 1105
Kapitonenko, S. V. 6557
Kapkoti, N. 5850, 6312
Kaplan, I. B. 3101
Kaponen, H. 6392
Kapoor, A. 6498
Kapoor, A. S. 380, 7455, 8458
Kapoor, M. 4704
Kapteyn, J. C. 2463, 3298, 4105
Kapur, S. P. 6119
Kar, R. K. 6338
Karadzhov, S. 2974
Karaĭvanov, G. 8349
Karan, M. 805, 8359
Karanth, N. G. K. 6712, 6743
Karapinar, M. 2961
Karasev, A. V. 419, 3088, 3446, 5058
Karavaev, V. A. 6655
Karavyanskiĭ, N. S. 2755
Karban, R. 3948
Karchik, O. N. 1364
Karcılıoğlu, A. 568
Karimov, Kh. M. 2362
Karjalainen, R. 1387
Karl, E. 935, 937
Karlatti, R. S. 4865
Karlsson, M. B. 658
Karova, V. 2974
Karp, A. 8473
Karpova, L. M. 1364
Karpova, O. V. 5096
Karpuk, V. V. 5182
Karr, A. L. 6752, 6773
Karr, D. B. 6773
Kartamyshev, N. I. 2334
Kartar Singh 6205-6206
Karthikeyan, A. 7023
Kartte, S. 3818
Karunakar, R. I. 4404, 5198, 7513
Karunaratne, A. M. 7003
Karwasra, S. S. 2664, 2667, 2685, 3732, 4320
Kasamo, K. 6028
Kasbekar, D. P. 4481
Kasha, K. J. 7490
Kashin, A. A. 1416

Kashio, T. 6669
Kashirkin, A. D. 2740-2741
Kashirskiĭ, O. P. 1508
Kashiwazaki, S. 5068, 5074, 8211
Kashuba, F. F. 8279
Kassem, A. H. 5988
Kassim, A. 1654
Kast, W. 2989
Kast, W. K. 1072
Kasteel, D. 8468
Kasuage, S. 1433
Kasuga, T. 5765
Katagi, T. 1802, 3312, 4945
Katan, J. 2545, 3419, 3480, 4078, 4208, 4215, 4903, 7352
Katan, T. 2125
Kataoka, J. 157
Kataria, S. K. 8355
Kataria, V. P. 2134
Kathen, A. de 2800
Katinger, H. 1327, 3434, 3836
Katis, N. 943, 4728
Katiyar, R. P. 7613
Kato, H. 4422
Kato, M. 8488
Kato, N. 7664
Kato, O. R. 2415
Kato, S. 6934
Kato, T. 1452, 5959, 6747, 7145, 7256
Katoh, K. 1893
Katoh, T. 6711
Katole, S. R. 501
Katsukura, M. 3054
Katsuya, K. 6501
Kattimani, K. N. 4318
Kattner, D. 8799-8800
Kauffmann, S. 1127
Kaufmann, A. 1117, 6263
Kaukoranta, T. 135
Kaul, J. L. 5413, 7826
Kaul, K. 5142
Kaul, R. K. 8658
Kaula, G. 3505, 3607
Kaula, G. M. 1434
Kaur, D. 4098
Kaur, G. 5246, 6836
Kaur, J. 3895
Kaur, L. 2142
Kaur, N. P. 4497
Kaur, S. 8301
Kaur Singh 8513
Kaushal, R. P. 4466, 6797
Kaushik, J. C. 8770
Kauss, H. 814, 4885
Kavanagh, E. E. 8647
Kavanagh, J. A. 1121
Kavanagh, T. 5498
Kawada, N. 7481
Kawaguchi, I. 8559
Kawaguchi, K. 8258
Kawahara, N. 7148
Kawai, A. 3365, 3838
Kawai, M. 5210
Kawai, Y. 5398
Kawakita, K. 4285, 7777
Kawalleck, P. 3241
Kawarabayashi, S. 8818
Kawasaki, N. 1575
Kawasaki, S. 8375
Kawate, M. K. 3693
Kawate, S. C. 3693
Kawazu, K. 8417
Kayahara, H. 3291
Kayamura, T. 1535
Kayım, M. 7635
Kayser, A. 8669
Kazachenko, R. F. 8704
Kazachkova, L. N. 6579
Kazakov, I. 6539
Kazakova, V. N. 2940
Kazan, K. 955
Ke, C. L. 6523
Ke, C. Q. 996
Keane, P. J. 553, 1125, 2868, 7868, 7875
Kearney, P. C. 1231
Kechakmadze, L. A. 7009
Keck, M. 3813
Keel, C. 666
Keel, C. J. 9
Keen, N. T. 2597, 3238, 4658, 5825
Keep, E. 4635
Keeton, W. S. 30
Kegler, H. 3839, 5054, 7731
Kegler, Kh. 2566
Kehr, R. D. 4800, 7093
Kehri, H. K. 1275
Keinath, A. P. 3727
Keizer, A. 1686
Kelemu, S. 655
Keller, B. 8315
Keller, G. 5704
Keller, P. 7856-7858
Keller, T. 1255, 3990
Kelley, W. D. 8796
Kelly, D. R. 1885
Kelly, J. D. 4475, 8442
Kelly, R. O. 7199
Kelly, S. L. 2560
Kelly, S. M. 797
Kelman, A. 1517
Kelsey, D. E. 8074
Keltner, D. G. 5979
Kemeya-Iwaki, M. 7959
Kemp, G. H. J. 8771
Kempen, H. 6090
Kempf, H. J. 569
Kenaschuk, E. O. 1679, 5519
Kendall, D. A. 4299
Kendall, S. J. 6687, 8318
Kendall, T. L. 5072
Kendig, S. R. 7074
Kendrick, W. B. 1909
Kenerley, C. M. 2358, 3113
Keng, J. C. W. 2602
Kenmore, P. 3631
Kennedy, D. M. 7763
Kennedy, F. J. S. 7829
Kennedy, R. 7536
Kenya Coffee 4734
Kenyon, J. S. 3943
Kenzior, A. L. 3236
Keon, J. P. R. 2054, 8350
Kepenek, K. 5419
Kerber, E. R. 842
Kerby, K. 3572
Kerfourn, C. 7121
Kerkenaar, A. 3298
Kerlan, C. 995
Kermen, J. 5710
Kerr, A. 7184, 8414
Kerr, E. D. 983, 2791
Kerssies, A. 6327
Kersten, W. 3356
Kersters, K. 6412, 7198
Kersting, E. 8052
Kersting, U. 5111
Kervella, J. 7466
Kerwin, J. L. 5606
Kesner, C. D. 8623
Kessel, G. J. T. 6071-6072
Kesseli, R. 1005
Kesseli, R. V. 3759
Ket, P. C. 704
Ketterer, N. 6187, 6609
Kettlewell, P. S. 3565
Kettrup, A. 3045, 3296
K'eu Tkhi Tkhy 8552
Keuren, R. W. van 7564
Kevan, P. G. 478
Khachatryan, N. K. 4095
Khader, M. A. 4884
Khader, M. D. A. 6350
Khadge, B. R. 95
Khafagi, Y. S. 3851
Khairudin, H. 2314
Khaĭrullin, R. M. 249
Khairwal, I. S. 896, 2199
Khakimov, A. Kh. 6868
Khalid, S. 2894, 3007, 5329, 5434, 7637, 8477
Khalifa, M. M. 2026, 5139
Khalil, M. S. 2336
Khalil, S. 1863
Khalilova, G. B. 3952
Khalvashi, Kh. M. 913
Khan, A. A. 420, 6022, 6026
Khan, A. B. 6437
Khan, A. G. 7297
Khan, A. J. 6196
Khan, A. M. 1550
Khan, A. R. 6663
Khan, A. U. 1564
Khan, J. A. 190
Khan, M. 8494-8495
Khan, M. A. 3115, 4810, 5329, 5867
Khan, M. H. 5971
Khan, M. M. A. A. 7394
Khan, M. W. 1540, 3473-3474, 3477, 4044
Khan, S. N. 4813, 7919, 8780
Khan, S. T. 4503
Khan, S. U. 2504
Khan, T. A. 1083-1084, 4503, 8659
Khanam, M. 7433
Khanam, N. A. 6663
Khangura, R. K. 4554
Khanizadeh, S. 6951
Khanna, K. K. 6511-6512
Khanna, P. K. 5772
Khanna, R. N. 5696
Khanna, S. 2505
Khara, H. S. 6906, 8558
Kharbanda, P. D. 518
Khare, K. 221
Khare, M. N. 1108, 5280, 5870-5871, 5997, 7369, 7627
Kharuk, V. I. 8797
Khasa, P. 4171
Khasanov, B. A. 2624, 2626, 4217, 6549
Khatik, S. K. 4009
Khatskevich, L. K. 826
Khatua, D. C. 4714, 5113, 8147
Khel'man, L. V. 8704, 8708
Khemira, H. 5396
Kherdekar, M. S. 314
Khetarpal, R. K. 2130
Khetmalas, M. B. 7509
Khiratkar, S. D. 501
Khitron, Ya. I. 2988
Khlebnikov, V. F. 453
Khlystovskiĭ, A. D. 979
Khokhlacheva, V. E. 3952
Khokhryakova, T. 652
Khokhryakova, T. M. 1526
Kholoden, V. A. 2739
Khoo, K. C. 4752
Khosla, K. 2948
Khovanskaya, K. N. 8704
Khulbe, R. D. 999, 1558, 3783, 7702
Khurana, N. 6578, 7345
Khurana, S. M. P. 6035
Khush, G. S. 2749, 5639, 5970
Kianmehr, H. 6494
Kida, M. 7683
Kido, K. 6090
Kido, T. 6449
Kiecana, I. 6347
Kieckhefer, R. W. 8337
Kiedrowski, S. 3241
Kieliszewska-Rohicka, B. 8124
Kiernan, J. M. 4259
Kieu Thi Thu 8552
Kijima, T. 5030
Kiku, T. 1605, 6987
Kikuchi, T. 7730
Kikumoto, T. 8160
Kikvadze, I. V. 7009
Kile, G. A. 1362
Kilen, T. C. 5247
Kilian, M. 2697
Kilian, W. H. 7479
Killani, A. S. 2775
Killham, K. 408, 1210
Kilpatrick, D. J. 1261
Kim, B. D. 8476
Kim, B. S. 440
Kim, C. H. 3638, 4416, 8823
Kim, D. H. 2181, 3374, 3797
Kim, D. K. 5205, 7774
Kim, D. R. 2181
Kim, D. Y. 2181
Kim, G. P. 5604
Kim, H. B. 8736
Kim, H. K. 1107
Kim, H. M. 7333
Kim, H. T. 5221
Kim, J. 387
Kim, J. G. 395
Kim, J. H. 2227, 5510, 7544, 8373
Kim, J. I. 5821
Kim, J. J. 3015, 4676
Kim, J. K. 8476
Kim, J. S. 1019, 1556, 5582, 7703, 8366
Kim, J. T. 5252
Kim, K. H. 5391, 6954, 7739, 8759
Kim, K. K. 6806
Kim, K. S. 169, 7543
Kim, K. Y. 2202
Kim, L. Y. 4416
Kim, M. K. 7332-7333
Kim, M. S. 2227
Kim, S. B. 2227, 3825, 4629
Kim, S. H. 7594
Kim, S. I. 8476
Kim, W. G. 8370
Kim, W. K. 846, 1982, 8184
Kim, W. S. 627, 2227, 3825
Kim, Y. H. 3247, 7332
Kim, Y. K. 7544, 7701
Kim, Y. S. 627, 2272
Kimati, H. 412, 424, 3384, 5307, 5483, 6558, 6996
Kimber, D. 3915
Kimbrough, J. W. 1297, 2534, 2556, 6488, 6995
Kimigafukuro, T. 1433
Kimishima, E. 3421, 7963
Kimura, I. 2729, 8227
Kimura, M. 2177, 5034, 6542
Kimura, S. 3004, 3293, 3646, 4006, 4634
Kimura, Y. 3633, 5879
Kindl, H. 5508, 8734
King, A. M. Q. 1934
King, D. 3143, 6384
King, J. W. 8354
King, P. S. 3903
King, S. B. 897, 899, 1448, 4406
King, W. J. 8054
Kinghorn, J. R. 5011, 5013
King'ori, P. N. 5490
Kinloch, B. B., Jr. 7112, 8789
Kinoshita, T. 2408
Kiratiya-Angul, S. 8840
Kirby, R. 8212
Kiriswa, F. L. 8296
Kiritani, K. 3216
Kirk, S. A. 7378
Kirk, W. W. 8486
Kirkman, B. 2277
Kirkpatrick, B. C. 2595, 3458, 5323, 5407, 8622
Kirpicheva, T. S. 952
Kirshner, B. 2407, 3170, 3470, 3995, 6329
Kishan Singh 1644
Kishira, H. 5596
Kishore, N. 3319
Kishore Khosla 2948
Kishun, R. 1596, 2999
Kisová, D. 4953
Kiss, A. 2600
Kistler, H. C. 2264, 3876, 7325
Kita, N. 8544, 8639-8640
Kitagawa, T. 8619
Kitajima, E. W. 183, 1178, 5451, 8395
Kitsno, L. V. 1036, 3803
Kitt, D. G. 2521
Kiyosawa, S. 2738
Kjaeldgaard, P. 4918
Klaasen, J. A. 280, 1404
Klaassen, V. 1331
Klapproth, M. C. 8309
Klassen, G. R. 1631, 1982, 5046, 7370
Klassen, P. 5692
Klein, A. W. 4958
Klein, M. 2564
Klein, R. E. 820, 2789
Klein, R. M. 7904
Klein, W. 134, 4958

Klein, W. M. 8623
Klein-Gebbinck, H. W. 4035
Kleinman, P. 30
Klement, Z. 2230, 2241, 2971
Klemmensen, P. D. 4106
Klessig, D. F. 3931, 4269
Klich, M. A. 4224
Klindworth, D. L. 5138
Klingner, A. 2513
Klironomou, E. J. 6100
Klochko, A. I. 913, 1391
Kloepper, J. W. 2439, 2822, 4211
Klooster, J. W. van 't 5745
Kloosterziel, K. M. 436
Klotz, M. G. 6409
Klu, G. Y. P. 549
Kluge, E. 2627
Kluge, M. 1741
Kluge, S. 3096, 5271
Knabe, O. 5192
Knaflewski, M. 8532
Knapp, A. 7081, 8754
Knapp, E. 1585, 3836
Knapp, K. A. 8756
Knauf-Beiter, G. 8713
Knauft, D. A. 8681
Knecht, M. 6323
Kneifel, H. 6
Knight, C. 3751, 4553
Knight, T. L. 7614
Knight, V. 4635
Knittel, R. 1426
Knogge, W. 871, 4369
Knoke, J. K. 876-877
Knoop, V. 5349
Knorr, D. 1947, 2109
Knorr, D. A. 3441
Knott, D. R. 2650
Knott, E. A. 5912
Knott, L. 1235
Knowles, N. R. 3334, 4148
Knowles, T. 1729
Knox, E. 298
Knox, G. 3172
Knox-Davies, P. S. 1353, 7578
Knudsen, G. R. 4484
Knudsen, H. 8131
Knudsen, I. M. B. 292, 5776
Knuth, M. L. 7262
Knyazyuk, V. I. 8279
Ko, T. S. 75
Ko, W. H. 1877, 1896, 1973, 3425, 6519, 7007, 7247, 7814, 8166, 8170
Koa, C. C. 5094
Kobayashi, A. 8417
Kobayashi, H. 5293-5294, 6416
Kobayashi, I. 951, 7483, 7491
Kobayashi, K. 2751, 3361, 6591, 6850, 7969, 8488
Kobayashi, M. 2213
Kobayashi, N. 2731, 4409, 5947
Kobayashi, S. 8029, 8099
Kobayashi, T. 2372, 4634, 4851
Kobayashi, Y. 3421, 7491
Kobayasi, T. 5566
Kobiler, I. 3884
Koblet, W. 2981
Kobrits, G. A. 2449
Kobyłko, T. 4874, 5587
Kobzina, J. W. 683
Koç, N. K. 7635
Koch, E. 8267
Koch, H. 5670
Koch, W. 2398
Kochetkov, V. V. 6607
Kochkina, G. A. 4853
Kochubeĭ, K. Yu. 255, 271, 3557
Kochuthresiamma Joseph 5523, 5525
Kociuba, W. 8342
Kock, S. L. de 466
Kodama, D. M. 55
Kodama, F. 6705, 7969
Kodama, M. 6867, 7797, 8612
Kodama, O. 5940
Kodarová, L. 1376
Kodira, U. C. 6069
Koen, T. B. 3829
Koenig, R. 788, 862, 1117, 6263
Koenraadt, H. 2223-2224
Koga, H. 2091, 7502
Koga, K. 6742, 6749
Koga-Ban, Y. 8438
Kogan, I. B. 3313
Kogan, V. 3272
Koganezawa, H. 3634-3635, 7531, 8368
Kogel, K. 843
Kogel, K. H. 154-155
Kogel, W. J. de 7138
Kogut, G. S. 8704
Koh, Y. J. 8490
Köhl, J. 4548, 6071-6072
Köhl, M. 8752
Kohli, M. M. 2633
Kohli, Y. 519
Kohmoto, K. 151, 2968, 3816, 6867, 7797, 8612, 8618
Kohn, G. K. 1229, 1234
Kohn, L. M. 519
Köhne, J. S. 2277
Kohnen, P. D. 5272
Koide, R. T. 4165
Koike, H. 3914
Koike, S. T. 5317, 7156
Koike, T. 5566
Koitabashi, M. 6654, 6721
Koiwa, H. 7676
Koiwai, A. 5812
Koizumi, M. 3014, 4667
Koizumi, S. 4422, 6723
Kojima, K. 6803
Kojima, M. 3233, 7676, 8367
Kojwang, H. O. 7114
Kok, L. T. 8858
Kokalis-Burelle, N. 8694
Kokoreva, V. A. 8505
Kokošková, B. 4055
Kolattukudy, P. E. 812, 5027
Kolb, F. L. 4372
Kölber, M. 7780
Kolesnik, L. V. 4262, 4726, 5496
Koleva, K. 1559
Kolk, J. van der 1799
Koller, B. 2949, 3581
Köller, W. 3876
Kollmorgen, J. F. 3510, 6666
Kolmer, J. A. 2004, 5861, 7459, 7461, 8338
Kolodyaznaya, V. S. 1366
Kolomiets, N. G. 7903
Koltin, Y. 5819, 6457
Komari, T. 2186, 7413
Komarova, È. P. 8339
Komarova, G. F. 3492
Kombrink, E. 6816
Komel, R. 1286
Kominato, M. 6091
Komiya, T. 7882
Kommedahl, T. 4235
Komuńska, D. 8398
Komurian, F. 1061
Komyoji, T. 8491
Konareva, T. N. 3743
Konchukovskaya, G. I. 817
Koncz, C. 8028
Kondoh, Y. 7797
Kondrashova, N. K. 7091
Kondrikov, D. Y. 5081
Konečný, I. 2333
Kong, J. 4599
Kong, J. A. 2013
Kong, P. 327
König, R. 4234
Konnert, M. 8805
Kono, Y. 2751
Kononova, G. A. 1363, 1365
Konova, I. V. 4853
Konstantinov, S. I. 8361
Kontzog, H. G. 1153, 7096
Koo, B. S. 3246-3247
Koo, C. D. 3329
Kookana, R. S. 5671
Koomen, I. 4680, 6618
Koonin, E. V. 3446, 5051, 5082, 8215
Kopáček, P. 2886
Kope, H. H. 1257, 4965
Köplin, R. 4935
Koponen, H. 6425
Korać, M. 8663
Korayem, A. M. 5723
Korbin, M. 5075
Kördel, W. 4958, 7220
Koretskaya, L. S. 875
Korf, R. P. 7368
Korganova, N. N. 3802
Kori, Y. 6399
Korić, B. 3513, 6660
Koriem, S. O. 2175
Kormelink, R. 1178, 4253, 5052, 5061, 5065
Kornegay, J. L. 8448
Korneva, L. G. 3531
Koroleva, I. B. 6692
Koropachinskiĭ, I. Yu. 8797
Korotaeva, S. G. 794
Korsten, L. 2279, 3038
Kosibowicz, M. 605
Kositratana, W. 434
Koske, R. E. 725-726, 1253, 7279
Kosljarová, V. 4725
Kosov, A. G. 8276
Kost, G. 3217
Kostandi, S. F. 5918
Koster, A. T. J. 6346
Koster, M. 5653
Kostin, V. I. 8278
Koswara, O. 4961
Koszelak, S. 6592
Kotani, S. 1530, 8827
Kotani, T. 3291
Kotcon, J. B. 3669
Kothandaraman, R. 5523, 5525
Kothari, S. K. 1271
Kotoujansky, A. 6401
Kottke, I. 4967
Kotzé, J. M. 530, 2276, 2278-2279, 2282, 2285, 3028, 5452, 7801
Koulali, Y. 5005
Kovacevich, P. 853, 5162
Kováčiková, E. 936, 1475, 5987
Kovács, G. 4297
Kovács-Benkó, Z. 7602, 7855
Kovalenko, A. G. 8723
Kovalenko, L. V. 1826
Kovalenko, N. M. 3482
Kovalenko, T. D. 3482
Kovbasiuk, E. V. 535
Kovtun, N. V. 881
Kowalewski, A. 3489, 6610
Kowalska, D. 1415
Kowalska-Noordam, A. 2154
Kowalski, T. 2377
Kozak, K. R. 7392
Kozakiewicz, Z. 124
Kozhevnikova, G. M. 3314
Kozhukhovskaya, V. A. 3515
Kozloff, L. M. 5645, 5655, 6408
Kozlov, L. P. 1519, 2848
Kozlovskiĭ, A. G. 4617
Kozub, G. C. 735, 1626, 2022
Kozumplik, V. 8724
Kraeva, G. A. 255, 271
Kraft, J. M. 376, 2808, 3693, 5269
Kragh, K. M. 2696
Krake, L. R. 1070, 2248, 3438, 6177
Kramer, C. L. 1384
Kramer, M. 7203
Kranz, J. 1425, 4234, 5943
Krasel, G. 5665, 8049
Krasil'nikov, E. A. 8710
Krasil'nikova, L. A. 5155
Krátká, J. 4002, 4586
Kräuchi, N. 7084
Kraus, J. F. 7933
Kraus, R. 4846
Kraus, T. 30
Krause, E. 5508
Krause, R. T. 4083
Krauss, G. 8422
Krauthausen, H. J. 4545
Krebs, B. 745
Krebs, E. K. 3187
Krebs, H. 5130
Krechting, C. F. 4352
Kremer, A. R. 8257
Kremer, M. 2677
Kremer, S. M. 4188
Kremer-Köhne, S. 3029-3030
Krengiel, R. 5084
Kress, L. W. 1715
Kreutzer, K. 8803
Kreutzweiser, D. P. 3300
Krichevsky, M. I. 1917
Krick, T. 4897
Krijger, M. C. 6072
Krikun, J. 2511
Krisel, W. G. 1810
Krishna Prasad, K. S. 711
Krishnamoorthy, A. S. 7686
Krishnamoorthy, S. V. 3078, 3081
Krishnapillai, V. 6404
Krishnaraj, P. U. 717-718, 4144
Krishnasamy, V. 8572
Krishnaswamy, S. 6583
Kristjansson, G. T. 2829
Kritsotaki, O. 5829
Kritzman, G. 3735, 7691
Kröcher, C. von 2002, 4294
Krone, C. 866
Kronstad, J. 883
Kronstad, J. W. 4388, 5020, 6702
Kronstad, W. E. 4323
Kropp, B. R. 4965
Kr"steva, L. 8555
Krstić, B. 3087, 6057
Krüger, J. 7734
Kruglov, Y. V. 2475
Krugner, T. L. 1259, 8753
Kruistum, G. van 7668
Krul, W. R. 488
Krupinsky, J. M. 8777
Krupnov, V. A. 261
Kruse, B. 8293
Kryczyński, S. 5288
Krzesinska, E. Z. 4624
K"rzhin, Kh. 1394
Kshirsagar, C. R. 1676
Kubelková, D. 1743
Kubiak, R. 5680, 7222, 7257
Kubicek, C. P. 4955, 8165
Kubik, M. 5420
Kubono, T. 4851
Kuc, J. 1130
Kuć, J. A. 2439
Kucharek, T. A. 8733
Kucharski, J. 1854
Kuchiki, F. 6972
Kuck, K. H. 7478, 8052
Kůdela, V. 1586, 4453
Kudo, H. 1339
Kudo, K. 1532
Kudoyarova, G. R. 3514
Kuehnel, L. A. 8782
Kugabalasooriar, J. 2979
Kuhad, R. C. 6578, 7345
Kuhlman, E. G. 6308
Kuhn, C. W. 353
Kühn, K. D. 712-713
Kühne, T. 3224
Kuhnt, M. 5697
Kuik, A. J. van 7948
Kulaeva, O. I. 1344
Kuleshova, A. N. 2524
Kulichin, O. A. 3147
Kulikova, G. N. 8292
Kulkarni, M. S. 525
Kulkarni, R. N. 4869
Kulkarni, S. 278, 1634, 2310, 2321, 2678-2679, 3547, 5144, 5859, 5877, 6661, 6824, 7153, 7890, 8585
Kumagai, I. 5815
Kumar, A. 312, 1441, 1831, 5774, 7522-7523
Kumar, B. S. D. 8034
Kumar, J. 256, 262, 954, 1198, 1773, 2005, 2438, 4329, 4939, 7001, 7175
Kumar, K. 1349-1350
Kumar, L. S. 4706, 7511

Kumar, M. 1003, 5316
Kumar, M. S. 691
Kumar, N. 2883-2884, 4570, 5114, 6093
Kumar, N. N. U. 480
Kumar, R. 6445, 8822
Kumar, R. V. 7550
Kumar, S. 6349, 6432, 6732, 8634
Kumar, S. M. 2747, 5224, 8383
Kumar, U. 4590
Kumar, V. U. 5200, 7521
Kumari, K. S. M. 6500
Kumari, S. G. 2772, 3697
Kumashiro, K. 7254
Kumashiro, T. 2186
Kumazawa, S. 8098
Kumita, I. 6446
Kummert, J. 7971
Kundu, S. 969, 998
Küng, R. 8308
Kung'u, J. N. 4660
Kunichenko, N. A. 453, 953
Kunimoto, R. K. 7814
Kuniyasu, K. 5320
Kunkalikar, S. 383
Kunkliker, S. 971
Kunoh, H. 951, 2039, 7483, 7491
Kunwar, I. K. 7513
Kunz, C. 4178
Kunz, W. 4103
Kunze, L. 3815, 3818
Kuo, A. L. 672
Kuo, H. F. 6212
Kuo, K. C. 2257, 7373
Kuo, T. T. 1218
Kur-Pracone, U. 7147
Kurata, M. 8827
Kurath, G. 8207
Kurdyla, T. 1699
Kurian, N. J. 1635
Kuroda, H. 5068, 5210
Kuroda, N. 5345, 6717
Kurogochi, S. 6448
Kuroli, G. 7602, 7855
Kurosawa, M. 5376
Kurowski, J. 2851
Kurowski, T. 1503
Kurtović, M. 6916
Kurtz, E. A. 7231
Kurz, M. 4060
Kürzinger, B. 8480
Kusakari, S. 7146
Kushalappa, A. C. 4531
Kushima, Y. 1552, 6407
Kushnir, U. 2018
Kushwaha, H. S. 7601
Kusmenoglu, I. 955
Kusters-van Someren, M. A. 5748
Kusum Badyal 6154, 6218, 7752, 7807-7808, 8563, 8597, 8620
Kusumo, S. 497
Kusumoto, K. 5941
Kusunoki, M. 7961
Kuwabara, T. 4349
Kuwano, E. 3292
Kuwata, H. 7563
Kuwata, S. 5326, 5812, 7413
Kuzhantaeva, Zh. Zh. 744
Kuziak, C. 802
Kuznetsova, A. A. 1368
Kuznetsova, I. F. 244, 1511, 1812
Kuznetsova, L. N. 1512, 2158
Kuźniewicz, M. 5283
Kvasnyuk, N. Ya. 1511-1512, 2158, 2840
Kwaśna, H. 4222
Kweon, J. S. 2925
Kwok, E. S. C. 8050
Kwon, K. S. 75
Kwon, O. K. 8696
Kyazhkin, V. V. 148
Kyburz, R. 8120
Kyle, M. M. 6006, 7714
Kyöstiö, S. R. M. 5652
Kyriakou, A. 4663
La, Y. J. 627, 2272, 7376
Laanen, A. M. E. 8707
Labeda, D. 6363
Laberry, R. 2854
Labit, B. 8188
Labrouhe, D. T. de 2299
Łabuda, H. 4478
Labuschagne, N. 530
Labutova, N. M. 6547
Laby, R. J. 657, 1209, 5651
Lacasa, A. 2547, 7724
Lacey, G. H. 659
Lacey, J. 3595, 4271, 7536
Lacey, M. E. 4196, 8676
Łacicowa, B. 6347
Lacoste, L. 4344, 5875
Lacourt, I. 7069
Lacy, G. H. 5652
Ladner, D. W. 4944
Laemmlen, F. F. 4291, 6069
Laessøe, T. 2287
Laffranque, J. P. 8098
Lafitte, C. 1491, 6613
Lafon, R. 4047
Lafond, G. P. 3472
Lafortezza, R. 2876, 3770
Lago, E. 3868
Lagudah, E. S. 1397
Laguna, I. G. 2708
Lagunas-Solar, M. C. 2254
Lagutina, T. M. 6547
Laha, S. K. 5113
Lahdenperä, M. L. 614
Lai, C. Y. 8824
Lai, L. Y. 6904
Lai, M. M. C. 784
Laigret, F. 6211
Laiho, O. 4123
Laimer da Câmara Machado, M. 1327
Laín, S. 2577, 8216
Laing, E. 8031
Lake, R. J. 8538
Laker, H. A. 4751
Lakhani, J. P. 2727, 2815
Lakhmatova, I. T. 2571
Lakitan, B. 30
Lakra, B. S. 5774
Lakshman, D. K. 5568
Lakshman, P. 8739
Lakshmanan, P. 336, 1438, 1440, 1443, 2082, 2734, 2745, 2747, 2813, 3647, 3650, 4433, 4439, 4778, 5224, 8383
Lakshmanan, V. 8783
Lakshmidevi, N. 3896, 7018
Lal, R. 647, 3911-3912
Lal, S. 647
Lal, S. D. 4855
Laliberté, J. F. 798, 5064
Lalithakumari, D. 4112, 4430
Lallu, P. 7614
Lalonde, M. 6496, 7301
Lam, C. H. 554
Lam, S. T. 6383
Lam-Chan, L. T. 622
LaMadeleine, L. 7081, 8754
Lamb, C. J. 2606, 4766, 7608
Lamb, J. A. 251
Lamb, R. J. 6011
Lambais, M. R. 3340
Lambert, C. 7108
Lambert, F. 5339
Lamberti, F. 1067, 8631
Lambhate, S. S. 7509
Lamboy, J. S. 359
Lamers, J. G. 5239
Lamey, H. A. 2119
Lamhamedi, M. S. 2496, 4963, 4965
Lamison, C. 2783
Lamkey, K. R. 5922
LaMondia, J. A. 7886, 8529
Lamont, I. L. 6406
Lamoure, D. 8131
Lampert, E. P. 8727
Lan, Q. Y. 5443
Lana, A. F. 1606, 3465
Land, S. 5727
Lande, H. L. van de 3058
Landry, B. S. 6845
Landschoot, P. J. 3177
Landsmann, J. 7182
Lane, L. C. 1751
Lane, S. D. 4472
Lanen, C. 4104
Lang, T. 2456
Lange, A. 6090
Lange, C. 4950
Lange, W. 3917
Langebartels, R. 5508, 8734
Langen, G. 843
Langenheim, J. H. 5555, 7107
Langerfeld, E. 980, 2842, 7648
Langeveld, S. A. 7966
Langham, W. S. 55
Langhe, E. de 4659
Langsdorf, G. 7646
Långström, B. 1708
Lanham, C. A. 3585
Lanina, T. P. 2914, 5817
Lanini, W. T. 6090
Lanneau, M. 3451, 3939
Lanser, A. C. 4186
Lantos, J. 2950
Lanz, T. 7827
Lapeyrie, F. 696, 4973
Lapidot, M. 8718
Lapierre, H. 926, 6696
Lapikova, V. P. 334, 4425
Lapshina, L. A. 1323
Lapwood, D. H. 4510
Larena, I. 1890, 7759
Larignon, P. 3860
Larkin, P. J. 1979
Laroche, J. P. 2544
Larous, L. 5006-5007
Larsen, J. 730
Larson, S. B. 6592
Larson, T. G. 6226
Larsson, C. 5318
Larsson, M. 619
Lartey, R. T. 2853
Larue, P. 6151
Lascaris, D. 5882
Lasorella, M. 5121
Last, P. J. 534
Lastres González, N. 6008
László, G. 1515
Latch, G. C. M. 2756, 8409
Lateef, S. S. 374
Laterrot, H. 3485
Latham, A. J. 4693
Latif, Z. 4495
Latil, C. 7678
Latin, R. X. 452, 1033, 7717
Latorre, B. A. 8626
Latorre, Y. 7756
Latorre G., B. 6152
Lätt, N. 6291
Latunde-Dada, A. O. 8564
Lau, G. W. 5957
Lauber, H. P. 6856
Lauren, D. R. 3499
Lauricella, R. 197
Laursen, G. A. 6466
Lauterbach, R. 3161
Laux, W. 3221
Lavi, U. 6670
Laville, J. 666
Laviña, A. 7126
Law, C. N. 5136
Lawn, D. A. 1396
Lawrence, E. G. 2528
Lawrence, G. J. 3959, 6281
Lawrence, J. S. 2339
Lawrence, S. D. 796
Lawson, K. R. 2457
Lawson, R. H. 8224
Lawton, K. 2345, 8247
Lawton, M. A. 7608
Laxman, M. 3623
Layrisse, A. 3905
Layton, R. J. 1804, 7260
Lazăr, A. 1976
Lázár, J. 7780
Lazarev, A. M. 1518-1519, 1541, 2848
Lazarova-Topchiĭska, M. 1619
Lazarowitz, S. G. 799, 1952
Lazu, M. N. 8246
Lazzari, G. 3346
Lê, C. L. 2173
Le Berre, A. 2404
Le Buanec, B. 6261
Le Coz-Gillet, S. 6576
Le Gall, O. 1320, 5059
Le Menn, R. 2995, 6184
Le Morvan, C. 3189
Le Page, R. 4703
Le Saint, J. P. 6085
Le Tacon, F. 89
Leach, J. 7558
Leach, J. E. 1463, 2750, 2752, 5227
Leadbeater, A. J. 8267, 8486
Leahey, J. P. 8053
Leahy, R. M. 4864
Leandri, A. 4609
Leath, K. T. 2767, 2774, 3666
Leath, S. 860, 2012, 7453
Leathers, T. D. 4201
Lebed', E. M. 4384
Lebeda, A. 2873, 3798
Lebedev, G. V. 1136
Lebedev, S. A. 1926
Lebedev, V. B. 1391, 4326, 5863
Leber, G. 87
Lebeurier, G. 2588, 5090
LeBlanc, D. C. 4847
Leblanc, R. M. 7110
Lebrun, A. 7971
Lebrun, M. H. 2079
Leclant, F. 3871
Lecomte, P. 5400
Lecoq, H. 179, 2208-2209, 3439, 3784, 3788, 6589, 6889
Lederer, W. 1055
Lee, A. T. C. 1601
Lee, B. M. 8696
Lee, C. H. 8696
Lee, C. S. 5481
Lee, C. U. 5391, 7739
Lee, E. J. 7960
Lee, E. K. 4629
Lee, F. N. 332, 5215, 5954, 7543
Lee, G. 1949, 4411
Lee, H. S. 3879
Lee, I. M. 214, 1955, 3457, 4265, 5109, 8233, 8235
Lee, J. H. 7333
Lee, J. K. 3041
Lee, J. S. 8366
Lee, K. 1208
Lee, K. H. 5582
Lee, K. K. 5929
Lee, M. W. 1019, 1556, 5032, 5592, 7303, 7307, 7703, 7976
Lee, O. 6986
Lee, R. F. 499, 4677, 6830, 8209
Lee, S. A. 5035
Lee, S. B. 105
Lee, S. C. 443, 4246, 7405, 8736
Lee, S. G. 8759
Lee, S. H. 901, 1019, 1451, 1556, 1757
Lee, S. K. 4410, 7304, 7704
Lee, S. M. 622, 1226
Lee, S. S. 5180, 6949, 7303-7304, 7307, 7438, 7777, 8628
Lee, S. T. 6212
Lee, T. C. 1086
Lee, Y. A. 14
Lee, Y. B. 2925
Lee, Y. H. 1451, 7599, 8377
Lee-Stadelmann, O. Y. 5179
Leegood, R. C. 7611
Leela Raj 6790
Lefohn, A. S. 2396
Legarde, M. P. 7737
Legendre, B. L. 7046
Legg, P. D. 7067
Leggett, F. 415
Legocki, A. B. 793
Legrand, M. 1127, 3936
Legrand, M. F. 1248
Leguizamon C., J. 5724
Lehmann, C. 1237
Lehmann-Danzinger, H. 1138

Lehnackers, H. 871, 1787, 4230
Lehoczky, J. 6958, 7780
Lehotay, J. 4953-4954
Lehto, K. 7404
Lei, J. 1862
Lei, S. P. 7193
Leibovich, G. 8601
Leibovitch, S. 3564
Leifert, C. 3751, 4553, 6078, 7125
Leigh, J. A. 3226
Leijerstam, B. 2662
Leinhos, G. M. E. 4305, 6632
Leinicke, A. J. 171
Leininger, T. D. 594
Leinss, C. 8801
Leiser, R. M. 3445
Leisle, D. 1402
Leisner, S. M. 1938, 4242
Leitão, F. A. 3900
Leitão, T. 2984
Leite, B. 3315, 3622, 6635
Leite, N. 331
Lemaire 1120
Lemaire, J. M. 1006
Lemaire, O. 2209, 3445
Lemanceau, P. 7138
Lemanova, N. B. 2998
Lemarchand, E. 982
Lembcke, G. 6230
Lembi, C. A. 3315
Lemmens, M. 6673
Lemmers, M. E. C. 7966
Lemoine, M. C. 1280, 3354
Lemon, K. M. 6750
Lemos, O. F. 2415
Lenardon, S. L. 2708, 3447
Leng, H. Q. 4614
Leng, M. L. 1232
Lenka, P. C. 3877
Lenna, P. di 8524
Lennard, J. H. 6580
Lenné, J. M. 6614
Lenoir, L. 6454
Lenssen, A. W. 3667
Lent, J. van 4253, 8468
Lent, J. W. M. van 633, 5063
Lenteren, J. C. van 5663
Lenz, R. 7088
León, C. de 5186, 7495
Leonard, K. J. 8353
Leonard, R. A. 1810
Leonards-Schippers, C. 2834
Leone, G. 5752
Leong, J. 5653
Leong, S. A. 883, 5185
Leontovyč, R. 3964
Leontyan, N. I. 953
Lepekhin, N. S. 1508
Lepiz Leal, R. 6915
Leple, J. C. 3234
Lepoivre, P. 4198, 6783
Lepom, P. 5192
Leranthne Szilágyi, J. 2301
Leroux, P. 3552, 4104, 6529
Lesemann, D. E. 193, 296, 788, 1117, 2172, 3815
Leshchinskaya, I. B. 427
Leslie, J. F. 308, 2684, 3383, 6521, 8156
Lesney, M. S. 3150
Lesovoĭ, M. P. 8183
Lespinasse, Y. 4610, 6146, 7734
Lester, D. G. 7566
Letendre, L. 5162
Lethbridge, G. 147
Letourneau, D. K. 2797
Leu, L. S. 4867, 7745
Leuchtmann, A. 6753
Leung, H. 1463, 5958, 7526, 7558, 8380
Leung, L. K. 5927
Levay, K. E. 1332, 5081
Lévesque, C. A. 3423, 3488, 4549, 6166
Lévesque, R. C. 6496, 7301
Lévesque-Lemay, M. 4374
Lević, J. 4380, 5910
Lévieux, J. 600
Levings, C. S., III 2711
Levkina, L. M. 3954
Levy, L. 7422
Levy, R. 40
Levy, S. 2412
Levy, Y. 2057-2058
Lew, J. E. 2582
Lewandowski, D. J. 3934
Lewartowski, R. 220
Lewicka, T. 11
Lewis, B. G. 2801, 7617
Lewis, G. C. 340, 5985
Lewis, J. A. 1968, 3222
Lewis, K. J. 1717
Lewis, L. N. 1497
Lewis, R. C. 2429
Lewis, S. T. 5035
Ley, J. de 7198
Leyva Mir, G. 6641, 6674, 6755
Lezzhova, T. V. 2024
Li, A. 7327
Li, A. Q. 577
Li, B. J. 4443
Li, B. X. 1742
Li, C. Q. 2864
Li, C. S. 3679, 5037
Li, C. Y. 4422, 5994
Li, D. B. 1221, 1298-1299, 1325, 1732, 1782, 1790, 1887, 8167
Li, D. L. 2056
Li, D. M. 5925
Li, E. B. 7715
Li, G. 1325, 5296
Li, G. J. 4141
Li, G. X. 3933
Li, H. L. 4783
Li, H. Q. 724, 4166
Li, H. S. 417
Li, J. 2686, 3949, 5995
Li, J. F. 2870
Li, J. L. 4306
Li, J. R. 4422
Li, J. S. 6280
Li, J. Y. 3806
Li, K. B. 8657
Li, L. L. 8668
Li, L. S. 1462
Li, L. Y. 266, 3540, 5856, 5872
Li, M. 3155, 5251
Li, M. D. 8122
Li, M. Y. 996, 6523
Li, Q. X. 7200, 8248, 8334, 8391, 8394
Li, R. M. 8745
Li, S. R. 8000
Li, T. S. C. 460, 3843
Li, W. E. 297
Li, W. H. 6468
Li, W. J. 5762
Li, W. M. 355
Li, W. X. 5940
Li, X. 297, 4061
Li, X. H. 1946, 2582, 5242, 5309, 6320, 8577
Li, X. J. 5442, 7795
Li, X. L. 4992
Li, X. M. 2083
Li, X. Q. 8616
Li, X. Y. 5308, 8508
Li, Y. 788, 4243, 5995, 7939, 8121
Li, Y. H. 2870, 4476, 5990
Li, Y. R. 338
Li, Y. Y. 3657, 8399
Li, Z. F. 8475
Li, Z. L. 5242
Li, Z. S. 8775
Li, Z. Z. 8503
Liang, J. N. 8392
Liang, K. G. 2723
Liang, L. Z. 369
Liang, M. X. 923
Liang, S. X. 7066
Liang, X. Y. 1403, 1545
Liang, Y. 2203
Liang, Y. G. 5484
Liao, C. H. 4927
Liao, L. 7591, 8424
Liao, Y. C. 3574
Liao, Y. M. 8787
Liapis, K. 6939
Liberta, A. E. 1855
Lichon, A. 293, 2043
Lichtenstein, C. P. 5500, 7881
Liddell, C. M. 4895
Lieberei, R. 2366, 5701
Liebold, E. 6318, 6321
Liefting, L. W. 4879
Liem, J. 5581
Lieutier, F. 599-600, 1164, 5553, 8790
Lievens, K. 1785
Ligaarden, Å. 132, 139
Ligat, J. S. 8451
Ligoxigakis, E. K. 2192
Ligrone, R. 728
Ligtenberg, F. K. 1840
Liguori, R. 8713
Likhachev, A. N. 3297, 6531
Liljas, E. 8239
Lillehoj, E. B. 889
Liloqula, R. 552
Lim, C. H. 75
Lim, G. 2530
Lim, S. M. 4465, 5991, 6001, 7600, 8429
Lim, S. T. 4246, 8817
Lima, G. 3874
Lima, M. I. P. M. 5522
Lima, M. L. R. Z. Da C. 2885
Lima Neto, V. da C. 2885
Limpert, E. 865, 2670, 3581
Lin, A. 6222
Lin, B. R. 1895, 3651
Lin, B. Y. 672
Lin, C. H. 907
Lin, C. P. 8502
Lin, F. C. 1566
Lin, H. C. 7193
Lin, M. S. 364, 7689
Lin, N. S. 3561, 7161
Lin, P. L. 5995
Lin, Q. C. 907
Lin, Q. W. 4622
Lin, Q. Y. 3435, 4412, 5949, 7528, 7967
Lin, T. F. 6745
Lin, X. G. 3336
Lin, Y. J. 8654
Lin, Y. R. 6314, 6317, 8792
Lin, Y. Z. 4408
Lin, Z. P. 3676
Lincoln, S. E. 6845
Lind, V. 6667, 8316
Linda, S. B. 3785
Lindberg, G. D. 5951
Lindberg, M. 3157-3158, 4825
Lindblad, M. 1352
Linde-Laursen, I. 6683
Lindeberg, M. 655, 1168, 4922, 6391
Lindemann, A. 5728
Lindenberg, H. 7472
Linderman, R. G. 699, 4120, 4153
Lindgren, P. B. 5264-5265
Lindh, E. 4918
Lindhout, P. 7677
Lindow, S. E. 667, 3250, 3832
Lindquist, R. K. 19
Line, M. A. 5003
Line, R. F. 2661, 5132, 7462-7463
Linfield, C. A. 1180
Ling, H. Z. 1310
Ling, K. 212
Ling, Z. Z. 5217
Linke, K. H. 4030
Linkins, A. E. 701
Linnasalmi, A. 6077
Linnik, V. M. 8361
Linskens, H. F. 128
Linthorst, H. J. M. 8720
Lipari, S. E. 2292, 7811, 8666
Lipps, P. E. 2715, 4391, 5240, 5989
Lisa, V. 4891, 5123, 8202
Lisansky, S. G. 6380
Lischke, H. 2935
Lisiewska, M. 3217
Lisk, D. J. 54
Lister, R. M. 820, 1371, 2703, 7437
Litten, W. 4172
Little, E. L. 7156
Little, G. 3718
Little, J. 1690
Littley, E. R. 993
Liu, A. G. 1742
Liu, A. Y. 7624
Liu, B. 8089
Liu, B. K. 5296
Liu, C. 3096
Liu, C. A. 5321
Liu, C. N. 3230
Liu, C. Q. 2295
Liu, C. Z. 494
Liu, E. M. 8374
Liu, F. 8399
Liu, F. C. 5387
Liu, G. L. 1742
Liu, G. Q. 5945
Liu, H. D. 7562
Liu, H. L. 2293
Liu, H. T. 3466, 4785
Liu, H. W. 5296
Liu, H. X. 338
Liu, H. Y. 848, 6317, 8792
Liu, J. 7451
Liu, J. C. 2083
Liu, J. F. 5919
Liu, J. H. 6124
Liu, J. J. 7414
Liu, J. S. 7166
Liu, J. Z. 5251
Liu, K. M. 2056, 3599
Liu, L. 1449, 5593
Liu, Q. Y. 4599
Liu, S. D. 6023
Liu, S. F. 7541
Liu, S. Q. 6313, 6315
Liu, S. W. 7200, 8391
Liu, W. 2723
Liu, W. J. 5611
Liu, W. R. 4182
Liu, W. X. 6653, 7467
Liu, X. J. 5783-5784, 5788, 8173
Liu, X. L. 5548, 8155
Liu, X. M. 5994
Liu, Y. 537, 2428, 4000, 6402
Liu, Y. C. 2594, 8666
Liu, Y. L. 3104
Liu, Y. P. 5995
Liu, Y. X. 7541
Liu, Y. Y. 8231
Liu, Y. Z. 3104, 5243, 7591
Liu, Z. 429
Liu, Z. D. 5056
Liu, Z. F. 3763
Liu, Z. J. 3367
Liu, Z. K. 6320
Liu, Z. L. 2107
Liu, Z. Z. 5165, 5167-5171, 5883
Liuo, J. F. 8089
Livescu, L. 2165
Livinder Kaur 2142
Livingston, R. L. 8756
Livsey, S. 7119
Liyanage, H. D. 2264, 3876
Lizoň, P. 1919, 7364
Ljubich, A. 7019
Llácer, G. 1051, 2234
Llobell, A. 7341
Lloyd, J. 8228
Lo, C. C. 6430
Lo, C. T. 4602, 7140
Lo, Y. S. 672
Lo Cicero, S. 5019
Lobo Ruano, M. 7722
LoBuglio, K. F. 8161
Locci, R. 8234
Lock, C. 8257
Lockaby, B. G. 2395-2396, 7941
Lockeretz, W. 6415
Lockhart, B. E. L. 1936, 3437
Lodha, S. 748
Lodolo, E. J. 3424
Loebenstein, G. 2172, 5805

Loeffler, R. S. T. 1811, 6701, 8094, 8151
Loeffler, W. 6459
Loehken, A. 5961
Loevinsohn, M. E. 59
Löffler, H. J. M. 7968
Loftus, M. G. 7392
Logemann, J. 1131, 5824
Loginov, S. 5058
Loginova, L. N. 1364
Logiswaran, G. 5279
Logvinov, V. A. 8710
Logvinova, A. P. 8710
Lohnes, D. G. 361
Lohweg, E. 2548, 4107
Loi, J. S. 443, 622
Loi, N. 2591, 6956
Loison, M. 5299
Lokesh, M. S. 525
Lokesha, S. 1614, 5740-5741
Lollato, M. A. 5267
Lombard, H. 4724, 7043
Lombardi, R. 1813
Lombardo, P. 32
Lombardo Gil Fagioli, S. 6267
Lomelí Osuna, C. 6755
Lomer, C. J. 2416, 8829
Lommel, S. A. 182, 5072, 8726
Lomonossoff, G. P. 1658, 1934, 5062, 5071, 5816, 7623, 8719
Lonardo, V. di 3167
Long, D. L. 4302-4303
Long, M. H. 997
Long, P. 8806
Long, P. G. 8420
Longa, M. A. 4147
Longhurst, C. 8262
Longo, N. 3126
Lonsdale, J. H. 2280-2281, 3029-3030, 7801
Loo, T. P. 6285
Loon, L. C. van 3098, 7059
Loper, J. E. 1293, 7729
Lopes, A. M. Q. 6708
Lopes, M. E. B. M. 2646, 3908, 5526
Lopes, V. 8035
Lopez, A. M. Q. 891
Lopez, D. O. 2055
Lopez, M. M. 6395
López, M. O. 7935
Lopez, S. 5012
López, T. 3868
López-Abella, D. 5099
Lopez-Braña, I. 5164
López-Fando, J. J. 6275
Lopez Galan, M. E. 782
López-Galvez, J. 4270
López-Moya, J. J. 5099
López Muñoz, J. 7661
López-Rosa, J. H. 3688
López-Sánchez, M. E. 2523, 3335
Lops, R. 2648, 4496
Lora, J. M. 7341
Lorbeer, J. W. 2863, 5755, 6074
Lorée, F. 8317
Lorentz, P. 7792
Lorenz, E. 3422
Lorenz, G. 8096, 8308
Lorenzini, G. 2113, 5834
Lorenzo, G. de 5019, 5258
Lori, G. A. 2193, 6675
Loridat, P. 6198
Lorito, M. 4176, 5000-5001
Løschenkohl, B. 5687, 6161, 7235, 7647
Lösel, D. M. 2431, 5006-5007, 7165
Losi, G. 3831
Lot, H. 802, 1004, 2209, 4558, 6851
Lou, L. M. 2594
Lou, X. 8738
Loughrin, J. H. 6506
Louie, R. 876-877, 2707, 8346
Lourduraj, A. C. 7829
Loutelier, C. 4950
Louwes, K. M. 7641
Lovato, A. 3089
Love, S. L. 5368
Lővei, I. 1392
Lovera, M. 714
Lovisolo, O. 166, 183, 4891
Low, P. S. 8740
Lowe, B. A. 488
Lowe, R. 4527
Lowe, S. C. 3442
Lowe, W. J. 5540
Loynachan, T. E. 1863
Loyola L., N. 2850
Lozano, C. 2854
Lozano, J. C. 6065
Lozano, S. J. 7262
Lozare, J. V. 4900
Lozoya Saldaña, H. 7048
Lu, C. P. 1896
Lu, D. C. 5250
Lu, G. Z. 5574
Lu, H. H. 4255
Lu, J. 2748
Lu, J. A. 7529
Lu, J. D. 2203, 8742
Lu, J. J. 5856
Lu, J. Y. 5743, 8176
Lu, J. Z. 6124
Lu, M. Q. 7689
Lu, Q. S. 1432
Lu, Q. X. 5574
Lu, R. J. 5174
Lu, S. H. 5167-5169
Lu, S. T. 5506
Lu, S. X. 7804
Lu, S. Y. 7559
Lu, T. 2011, 3657
Lu, T. B. 4243
Lu, W. Q. 2781, 5990
Lu, X. 4165
Lu, X. F. 5229, 5973
Lu, X. Y. 5762
Lu, Y. 1338
Lu, Y. J. 8617
Lübbe, W. A. 1157, 1702
Lubentseva, T. G. 398, 2159
Lubin, C. 2261
Luca, V. de 1878
Lucas, J. A. 12, 275, 8263-8264
Lucas, P. 3388, 4351
Lucas, W. J. 4755
Luck, B. T. 1690
Ludwig, A. 3355, 4178
Ludwig, A. C. 4542
Ludwig, W. F. 3590
Luhn, C. F. 513
Luhusa, U. 8311
Lui, K. J. 2274
Luis Arteaga, M. 6117, 6882-6883, 8539
Luisetti, J. 591, 5590
Luisi, N. 2405, 4834
Luisoni, E. 8202
Luke, M. A. 55
Lukezic, F. L. 2615
Lukow, O. M. 6644
Lukyanenko, A. N. 8543
Luk'yanenko, A. N. 8543
Luley, C. J. 585, 3141
Lumpungu, K. 4717
Lumsden, R. D. 1894, 5004
Lunati, U. 3089
Lundehn, J. R. 2472
Lunderstädt, J. 8773
Lundgren, L. 3157
Lundqvist, A. 6679-6680
Lundqvist, U. 6679-6680
Lung-Escarmant, B. 6524
Lunina, N. A. 5058
Luntz, O. 7780
Luo, C. Y. 6834
Luo, H. H. 277
Luo, J. T. 3763
Luo, L. C. 4353
Luo, L. J. 3654
Luo, Q. M. 7539
Luo, Y. 1455, 8399
Luo, Y. W. 5602
Luo, Z. D. 1079
Lupan, A. S. 6858
Lupashku, G. A. 875
Lupo, R. 4241
Lutchmeah, R. S. 2275
Lute, M. 6408
Lüth, P. 740, 6236
Luther, M. 8253
Luthra, J. K. 3523, 4359, 5145
Luthra, O. P. 2656, 4321, 5142-5143
Luthra, Y. P. 1429
Lüttge, U. 7856-7858
Lutz, J. 2670
Luz, E. D. M. N. 2341
Lyal'ko, R. V. 2779
Lyaskovskiĭ, M. I. 1981
Lyles, J. L. 6331
Lynch, J. M. 1370, 4174
Lynch, R. L. 4027
Lynn, D. G. 1208
Lyon, G. D. 5298
Lyons, S. N. 7789, 8637
Lysov, A. K. 1508
Lyublinskaya, N. A. 2988
Ma, B. L. 3564
Ma, C. H. 2056, 3599, 5919
Ma, F. Q. 284
Ma, G. Z. 6562, 8497
Ma, H. 2067
Ma, H. G. 8745
Ma, J. 2428
Ma, J. C. 5777
Ma, M. 3676
Ma, Q. L. 284
Ma, Q. X. 849
Ma, S. M. 5244
Ma, S. S. 8424
Ma, Y. 4385
Ma, Y. L. 5184
Ma, Y. Q. 7715
Maas, E. M. C. 2276, 2283, 2285, 5452
Maas, G. 5665
Maas, J. L. 1063, 7769
Mabbett, T. 4355
Mabry, T. J. 6352
McAlpine, J. R. 3208
McAndrew, D. W. 2098
McArthur, A. J. 7606
McArthur, D. A. J. 3334, 4148
Macauley, B. J. 3510, 5880
McBlain, B. A. 7322, 7593
McBride, D. K. 2119
McBride, H. J. 2576
McBride, J. R. 7937
McCaffery, M. 796
McCain, A. H. 7112
McCarrison, A. M. 4655
McCarter, S. M. 302, 1025, 5302, 6873
McCarthy, J. F. 51, 8078
McCartney, H. A. 4196, 8676
McCarty, L. B. 6332
McCasland, R. 7194
McCay-Buis, T. S. 3044, 6626
McClean, P. E. 3684, 7339
McClean, T. M. 4134
McCracken, C. T., Jr. 6506
McCraken, A. R. 4812
McCraw, B. D. 1568
McCreight, J. D. 5352
McCue, S. 3275
McCulloch, B. 5459
McCune, D. 3973
McCutcheon, T. L. 7122
McDaniel, L. L. 421
McDavid, C. R. 4720
McDermott, J. M. 3133, 3581
McDonald, D. 5472, 6249, 7034, 7831-7832
McDonald, D. P. 1792
MacDonald, G. 3154
MacDonald, J. D. 6331
McDonald, J. G. 2829
MacDonald, M. V. 426
McDonald, R. E. 7425
Maček, J. 7501
McElhaney, R. N. 3456
McElhinney, C. 4128, 6481
McElreath, S. D. 3983, 4695
McEntee, J. P. 4895
McEvoy, J. L. 4923
McFadden, G. I. 7317
MacFarlane, S. A. 6585
McGee, D. C. 358
McGimpsey, H. C. 3891, 3893
McGrath, M. T. 5373
McGuire, P. E. 5126
MacHardy, W. E. 6145
Macheix, J. J. 3960
McIntosh, M. S. 931
McIntosh, R. A. 840, 1390, 1992, 1994, 4315
MacIntosh, S. 1941
Mack, T. P. 6246, 7028
McKay, A. C. 7571
McKay, A. G. 3753
Mackay, G. R. 2837
Mackay, W. A. 7712
McKeen, W. E. 2695
McKemy, J. M. 769, 1037
Mackenzie, A. M. 2579, 7408, 8839, 8841
Mackenzie, D. R. 1194
McKenzie, E. 7657
McKenzie, E. H. C. 761, 7367
McKenzie, M. 2845
McKenzie, R. I. H. 1402
McKern, N. M. 164, 188, 192, 211, 4249
MacKey, J. 2604
Mackie, G. A. 1330, 5101
McKillip, W. J. 8076
Mačkinaitė, R. 2766
McKinlay, R. G. 4216
Mackintosh, C. G. 8397
Macknight, R. C. 7243
Macko, V. 3621
Maćkowiak, D. 4730
McLaren, J. B. 5979
McLaren, N. W. 307, 892
McLaughlin, D. J. 1758, 1998
McLaughlin, L. 30
McLaughlin, M. R. 348
McLean, B. G. 7401
Maclean, D. 2453
Maclean, D. J. 363, 3414, 3580
McLean, G. 321
McLean, H. S. 3072
McLean, L. K. 2640
McLean, M. 7506, 8352
McLean, M. A. 1064
McLennan, K. 408
McLeod, P. J. 6129
McLoughlin, T. J. 1413, 7017
McMahon, B. G. 7917
McManus, C. 1917
McMillan, R. T., Jr. 2264, 3876, 6340
McMullen, M. D. 8346
McMurphy, L. M. 7245
McNab, W. H. 7115
McNabb, H. S., Jr. 585, 1863
McNamara, D. G. 1772
McPherson, A. 6592
McPherson, M. J. 2436
McPherson, R. M. 8722
Macquaire, G. 5401
McQue, A. M. 581
McQuilken, M. P. 3469, 6605
McRae, C. F. 6358
McRae, K. B. 1576
McRitchie, J. J. 606, 4876
McVey, D. V. 8288
Mada, R. J. 6493
Madalageri, B. B. 6824
Madalieva, G. K. 572
Madan Pal 5950
Madar, Z. 7940
Madden, L. V. 477, 1513, 1930, 2244, 2707, 2715, 4391, 7772
Maddox, J. J. 6486
Maddy, K. T. 1233
Madeira, A. C. 7606
Madel, H. 4618, 5410
Madhu Meeta 4866, 8460, 8811
Madhu Solanki 1160
Madhukar, J. 6217
Madhumita Das 3658
Madi, L. 2125
Madir Kumar 5316
Madkour, M. A. 7422
Madrigal, C. 5415, 7759
Madrigal, J. L. 8113
Maeda, H. 3291
Maes, M. 8027
Maffi, D. 6010

Magalhães, J. R. 5876
Magan, N. 1385, 5197
Magar, L. M. 3196
Magarey, P. A. 482, 6965
Magaro, J. 223
Magasi, L. P. 2374, 3962, 8761
Magboul, A. M. 2676
Magdalena, J. C. 4946
Magdalita, P. M. 4683
Magee, P. S. 4943
Magill, C. W. 309, 3374, 3612, 3797, 7318
Magnus, H. A. 132, 138-139, 238
Magrath, R. 115, 2865
Maguire, J. D. 420, 8401
Mahadevan, A. 1791, 2437, 6620, 7299
Mahajan, V. 5141, 7503
Mahapatra, H. S. 757
Mahé, A. 2793
Mahendra Prasad 5316
Mahendra Singh 748
Maher, E. A. 1517
Maherchandani, N. 2656
Maheshwari, R. V. 3702
Mahi, G. S. 2009
Mahlooji, T. 5148
Mahmood, I. 3705, 6019
Mahmood, S. K. 634
Mahmood, T. 5133
Mahmuda Khanam 7433
Maholay, M. N. 8444
Mahoney, N. E. 2222
Mahrer, Y. 5827
Mahrishi, R. P. 2920
Mahuku, G. S. 2718
Mahungu, N. M. 6831
Mahy, B. W. J. 1319
Maia, L. C. 6488
Maia, M. I. 4621
Maier, J. 7484
Maier-Maercker, U. 2398
Maijala, P. 1258
Mainardi, M. 6940
Maini, P. 4592
Maini, S. 1359
Mainjeni, C. E. D. 6147
Mainou, A. C. 3844
Maison, P. 2235, 3837
Maisonneuve, B. 6851
Maiss, E. 193
Maiti, D. 3652
Maixner, M. 6175
Maj, Z. 4874
Majchrzak, B. 1503
Majewski, M. S. 45
Májková, L. 4727
Major, C. S. 8039
Majorana, A. 4662
Makaev, S. Sh. 2570
Makar', G. A. 425
Mäkäräinen, E. 6041
Makarova, N. A. 1395
Makarova, T. V. 3857
Makina, D. W. 493
Mäkinen, K. 208
Makino, T. 5210, 5293-5294
Makkouk, K. 4298
Makkouk, K. M. 206, 2772, 3697, 5988
Makowski, R. M. D. 5615, 7992
Maksimov, I. V. 5156
Mala Devi 4818
Małachowska, D. 220
Malajczuk, N. 706-707, 4974, 7287
Malamy, J. 3931, 4269
Malathrakis, N. E. 5829, 6100, 6375
Malavolta, C. 2929, 6139
Malavolta, V. A., Jr. 7158
Malavolta, V. M. A. 5222-5223, 6722
Malawi, Ministry of Agriculture 4036
Malcolm, C. P. 4082
Malesevic, M. 8271
Maleszka, R. 5002
Malhotra, S. K. 2897
Mali, B. B. 567
Mali, B. L. 7630
Maliga, P. 5499
Malik, B. A. 2138, 3698
Malik, S. S. 2733
Malinovskiĭ, O. A. 8339
Malinovskiĭ, V. I. 2572, 7879
Malinowski, T. 5408
Mališević, E. 6916
Malkomes, H. P. 1825, 3304
Mall, O. P. 5769
Mallaiah, K. V. 1925, 3674, 7384
Mallesha, B. C. 4979
Malleshi, N. G. 7511
Malnoë, P. 6809, 7060
Maloba, W. E. 3564
Malosse, C. 6529
Maloy, O. C. 2388
Malschi, D. 3460
Malsy, S. 1741
Maluf, W. R. 1546
Malvar, R. A. 8863
Malý, J. 3496
Malyszko, J. 1879
Mametsuka, H. 1575, 1594
Mammooty, K. P. 7150
Mamukashvili, Ts. I. 5532
Manago, M. 3002
Manalo, J. O. 557
Manandhar, H. K. 217
Manandhar, V. 8778
Manasi Mishra 6464
Mandahar, C. L. 5195
Mandakhot, A. M. 5968
Mandakini Nayak 904
Mandal, N. C. 1013
Mandelbaum, R. 3385
Manders, B. J. G. 5748
Mang, K. Q. 5056, 7414
Mangiarotti, A. M. 6918
Manguiat, I. J. 4985
Mani Varghese 1098
Manian, S. 5773
Manibhushanrao, K. 5773, 7554
Manicone, R. P. 2405, 4802
Maniloff, J. 3456
Manji, B. T. 6142
Manju Chauhan 4981
Manjunath, A. 2522
Manjunath, K. L. 8209
Manjunatha, K. R. 4770
Manjunathaiah, H. M. 4144
Mańka, K. 121
Mańka, M. 121, 613, 7673
Mankar, S. W. 6114
Maňkovská, B. 4793
Manktelow, D. W. 7755
Manners, J. G. 5630
Manners, J. M. 363, 3414, 4462, 6758, 7350
Mannien, M. 6392
Manning, M. A. 4656
Manocha, M. S. 3359, 4207, 6510, 6517
Manohar, S. K. 4696
Manohara, D. 624
Manoharachary, C. 3286
Manoukian, A. 5070
Manoussopoulos, I. N. 8228
Manrao, M. R. 4098
Mansfield, J. 2446, 3242, 6888
Manshardt, R. M. 3034
Manske, G. G. B. 1850
Mansky, L. M. 4464, 7397
Mansoori, B. 1675
Mansour, I. M. 6627-6629
Mansuetus, A. S. B. 5930
Mansuetus, S. B. A. 1442
Mansur, L. 3675
Manthey, R. 1991
Mantis, N. J. 5648
Mantle, P. G. 5932
Mantovani, G. 536
Mäntylä, A. L. 743
Manulis, S. 3735
Manzali, D. 3382, 8535-8536
Manzanares, M. J. 6085
Manzaroli, G. 1359
Manzer, F. E. 2851
Mao, W. J. 3649
Maracchi, G. 2246
Marais, G. F. 2651, 3529
Marais, L. J. 1601, 6202
Maraite, H. 1377, 2025, 6833, 7651, 7851
Maramorosch, K. 6715
Marasas, W. F. O. 280, 1404, 4226
Marattukalam, J. G. 3961
Marboutie, G. 1061, 4628, 7756-7757
March L., E. 386
Marchant, R. 3378
Marche, S. 4696
Marchegay, P. 3552
Marchenko, G. P. 6433
Marchetti, M. 1821
Marchione, V. 4496
Marchoux, G. 6861, 8576
Marciano, P. 5764
Marcillac, G. de 8225
Marcinka, K. 5271
Marco, G. J. 1223
Marco, S. 3739, 7655
Marco, S. di 7758
Marcomini, A. 5681
Marcos, J. F. 7803
Marczewski, W. 2154
Mardiningsih, T. L. 2416
Marechal, L. R. 2674
Maréchal-Drouard, L. 5112
Marek, S. M. 6752
Maresi, G. 4795, 6228
Margis, R. 7409, 8221
Margot, P. 4103
Mari, M. 7428
Mariano, R. L. R. 6707, 6873
Mariappan, V. 8642
Mariau, D. 3058
Marimuthu, T. 1184, 4881-4882, 7977
Marin, H. 3747
Marin, J. P. 235
Marin-Sanchez, J. P. 4327
Marin Sanchez, J. P. 4361
Marinescu, M. 1386, 1407
Maringoni, A. C. 6779, 7033
Marino, M. 125
Markham, P. G. 927, 3440, 3487, 8193
Markos, F. 830
Markov, I. L. 516
Marković, M. 4708
Marković, Ž. 8556
Marks, G. C. 5534, 6330
Marley, P. S. 4498
Marlín, A. 3543
Marlow, J. L. 2068
Marmeisse, R. 710
Marois, J. J. 2997, 5426, 8633
Maroni, M. 8086
Maroof, M. A. S. 2044, 7508
Maroquin, C. 6624, 7971
Marozīk, G. V. 5129
Marques, M. R. 1832
Marquez, J. 3358
Marrs, G. J. 5938
Marsal Peset, J. I. 8580
Marschner, H. 1271, 2508, 4170, 4992, 8441
Marsh, L. E. 1658
Marshak, D. R. 4377
Marshall, H. H. 8807
Marshall, K. D. 7154
Marshunova, G. N. 2524
Marte, M. 3681, 6881
Martelli, G. P. 485, 1067, 2237, 2580, 2610, 3854, 6244, 7012, 7778
Mårtensson, A. 3309-3310
Martían, M. T. 4252
Martin, A. 3503
Martin, A. K. 1691
Martin, F. 5703, 8128
Martin, F. G. 470
Martin, G. B. 2198, 3777
Martin, J. G. 6536
Martin, M. 8545
Martín, M. M. 2234
Martin, R. 6225
Martin, S. G. 5009
Martin, T. J. 5854
Martin-Tanguy, J. 564-565
Martinelli, J. A. 4367, 6681, 6848
Martinetti, G. 1293
Martínez, B. 4195
Martínez, C. 3632
Martinez, F. 1094
Martinez, L. 2898
Martínez, M. E. 3872
Martínez-Cano, C. 872
Martínez de Azagra, A. 7102
Martínez de Velasco, D. 7751
Martinez-Espinoza, A. D. 864
Martínez-Force, E. 2619
Martínez Ramírez, J. L. 6095
Martinez-Rossi, N. M. 4199
Martínez Saavedra, G. 7913
Martínez-Soriano, J. P. 6581
Martini, N. 4519
Martino, L. 1593
Martins, C. R. F. 5451, 8395
Martins, E. M. F. 2654
Martins, M. A. 3352, 7306
Marton, J. 3289
Martyn, R. D. 3374, 3797, 3950, 8602
Martyniuk, S. 2625
Maruyama, E. 7129
Marvin, C. H. 79
Marx, D. H. 4127, 5716
Marxmüller, H. 1916
Marzachi', C. 2590
Marziano, F. 4532
Masaba, D. 7050
Masaba, D. M. 5490
Masaki, H. 172
Mascarenhas, H. A. A. 6772
Masel, A. 6758
Masel, A. M. 4462, 7350
Masenga, V. 8202
Mash, S. J. 3091
Maširević, S. 523, 4232, 4718
Maslova, A. A. 3804, 6075
Masner, P. 8102
Mason, R. D. 6427
Mason, S. C. 716
Masoud, T. 2809, 3083
Masroor, M. K. 2269
Massicotte, H. B. 703, 6504
Massonié, G. 2235, 3837
Mastebroek, H. D. 2692, 5177
Masuda, T. 6932
Masuhara, G. 6501
Masuka, A. J. 2379
Masumoto, H. T. 55
Masunaga, T. 5941
Masuta, C. 2186, 5326, 5812, 7413
Mata, R. 6465
Matalaote, B. 1434, 3505
Matano, O. 1225
Mateeva, Z. E. 561
Mateiaş, M. 3460
Mateille, T. 1598
Matejka, J. C. 1152, 1603, 8652
Materán, M. 3490
Materazzi, A. 3102
Mateus, J. D. 7249
Mathai, G. 3791
Mathauda, S. S. 2009
Matheis, L. 7002
Mather, D. E. 1422, 2713, 4393, 5187, 5921
Matheron, M. E. 1152, 1603, 8652
Mathew, A. V. 414, 1527, 3791, 7989
Mathew, J. 3791, 5523, 5525
Mathews, C. K. 7025
Mathiasen, R. L. 8756
Mathieu, D. 4114
Mathikumar, P. 8642
Mathon, M. P. 7477
Mathre, D. E. 4283
Mathur, A. K. 5891, 5894, 5897, 7492
Mathur, K. 5273, 5374-5375
Mathur, N. 4866
Mathur, S. 1537, 3073, 5313
Mathur, S. B. 264, 337, 382, 924, 3963

Mathur, V. K. 326
Mathuresh Singh 1643, 1765
Matichuk, V. G. 885
Matók, I. 3696
Matoušek, J. 974, 2886-2887
Matser, A. M. 2451
Matsuda, I. 3766
Matsuda, K. 3316, 6411
Matsuda, Y. 6411
Matsuki, H. 3284
Matsumiya, E. 8509
Matsumoto, D. 5570
Matsumoto, K. 626, 2078
Matsumoto, M. 5578
Matsumoto, S. 3861, 8087
Matsumoto, S. N. 5193
Matsumoto, T. 1301
Matsumura, T. 2589, 2729
Matsunaga, E. 7147
Matsuno, Y. 6461
Matsuo, H. 6742
Matsuo, K. 1590, 7708
Matsuyama, N. 939, 6393, 6399, 6407, 6522, 6742, 6749, 6874, 6954
Matsuzaki, I. 6600
Matsuzaki, M. 1458, 6840
Matsuzaki, S. 3165
Mattanovich, D. 1327, 1585, 3434, 3836
Matteoni, J. A. 8814
Mattern, G. C. 4087
Matthee, F. N. 280, 1404
Mattheij, W. M. 7641
Matthews, G. A. 8083
Matthews, P. 2801
Matthysse, A. G. 413, 1783
Mattoo, A. K. 8732
Matuo, T. 498
Matuszak, J. M. 231, 7321, 8490
Matveeva, E. V. 919, 3899
Matveeva, L. N. 1367
Matyssek, R. 3990
Mau, R. F. L. 1939, 2584, 4240
Mauch, F. 2671
Maude, R. B. 994
Maul, S. B. 5716
Maule, A. J. 5268, 5270, 7611
Mauler-Machnik, A. 7478
Maund, S. J. 8107
Mäurer, R. 2595
Maurer, T. 5680
Maurhofer, M. 666
Maurin, N. 2114
Mauromicale, G. 2891-2892
Maury, Y. 2130
Maurya, M. L. 5310
Mauser, H. 8747
Mavankal, G. 8220
Mavi, H. S. 2009
Mawson, K. 6048
Maximay, S. 4499
Maxwell, D. P. 2127, 3769, 5810
May, C. E. 1397
May, L. 8310
Mayama, S. 6689
Mayee, C. D. 3196
Mayer, A. M. 5747, 5754
Mayer, R. T. 7425
Mayhew, D. E. 1739, 2307, 7415
Maykuss, F. 3723
Mayo, G. M. E. 3120
Mayo, M. A. 163, 1964, 4257, 5070, 5085-5086, 5088, 5803
Mayorga, M. 4741
Mayr, R. 5702
Maysa, M. A. 6627
Mazau, D. 6613
Mazur, O. P. 2524
Mazur, S. 5305
Mazzani, C. 3905
Mazzei, M. 4645
Mazzini, F. 2929
Mazzucchi, U. 3848
Mbaye, D. F. 7518
Mbwaga, A. M. 1434, 4404
Meah, M. B. 1615, 6998
Meckenstock, D. H. 3620
Medalla, E. S. 920
Medberry, S. L. 1936
Medd, R. W. 1314
Medda, R. N. 8762
Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent 8018
Medeira, M. C. 4621
Medeiros, E. F. 5491
Medeiros, R. B. 5045
Medentsev, A. G. 6014
Medina, G. L. 2828
Medina, P. F. 8425
Medina, V. 806, 3487
Meeley, R. B. 2064, 4400
Meenakshikutty, C. 5530
Meer, F. A. van der 2980
Meer, L. J. van der 6346
Meera, M. S. 5200, 7521
Meerman, F. 2600
Meeta, M. 4866, 8460, 8811
Meeus, P. 7616
Mehan, V. K. 5472, 5474, 7831
Mehdi, S. S. 2304
Mehdy, M. C. 2120, 3340
Mehlenbacher, S. A. 5462
Mehrotra, B. R. 3406
Mehrotra, M. D. 590, 3976, 4820, 4829, 6298, 8780
Mehrotra, R. S. 6836
Mehta, B. P. 8386
Mehta, S. 8469
Mehta, Y. R. 1986, 2018, 2633
Mei, B. 883, 5185
Meier, C. E. 705
Meier, R. 1263
Meier zu Beerentrup, H. 3200
Meijer, B. J. M. 5793
Meillon, S. de 1750
Meinhardt, F. 7283
Meins, F., Jr. 2343, 2350, 3932
Meints, R. H. 1751
Meisch, H. U. 7915
Melakeberhan, H. 5409
Melbourne, S. 1680
Melcher, U. 2853, 8197, 8214
Melchers, L. S. 4765, 5116, 5509
Meldahl, R. S. 2395-2396, 7941
Melero-Vara, J. M. 4544
Meletzus, D. 1015, 2900
Melgarejo, P. 1890, 2242, 3847, 5415, 7759
Melik-Sarkisov, O. S. 392, 5291
Meliyan, L. G. 8246
Mel'kumova, E. A. 4636
Méllo, J. F. de 1240
Mel'nik, V. A. 1756
Mel'nikov, N. N. 3314
Melo, I. 3128
Melo, I. S. de 438
Melouk, H. A. 8689
Melville, L. H. 703, 6504
Memg, Z. 1298
Mena, G. L. 7390
Mena, M. 5164
Menarini, M. 3089
Menasherov, M. 3595, 5119
Méndez, J. T. 7123
Mendgen, K. 107, 384, 948, 1047, 1291, 1970, 2112, 2116, 3380, 4973
Mendoza, D. M. 4985
Mendoza, H. A. 4512
Mendoza-Onofre, L. E. 3614, 3618
Mendoza Z., C. 6191, 6970
Mendoza Zamora, C. 5893, 6107, 6509, 6823, 6872, 6915, 6937, 6945, 6966, 7123, 7486
Menéndez, J. M. 7202
Menezes, M. 6707
Meng, F. Y. 5547
Menge, J. A. 3038
Mengesha, M. H. 5474, 8244
Mengistu, A. 7015
Mengistu Hulluka 1993, 2014, 8289
Menn, R. le 2995, 6184
Menna, M. E. di 2088, 3499, 5232
Mennella, G. 2903
Menniti, A. M. 6159
Menschel, G. 6419
Menten, J. O. M. 370, 426, 571, 2616, 2798, 3955, 5267, 5516, 6741, 7033, 7072
Mentwab Haregewoin 1993
Menzies, J. G. 2915, 4605, 6898
Meon, S. 2316
Mepsted, R. 4711
Mercadier, B. 3048
Mercé, J. 2551, 6548
Mercer, P. C. 3891, 3893, 8673
Merdinoglu, D. 1118, 1123
Merendino, A. 4592
Merezhko, T. O. 3395, 6557
Meriggi, P. L. 2335, 3922-3924
Merkkiniemi, R. 135
Merkulova, K. M. 2622
Merli, S. 6413
Merlini, L. 8252
Mermoud, A. 8057
Meronuck, R. A. 7445
Merrill, W. 6301
Merriman, P. R. 2868
Merrin, J. 1413, 1420
Mertely, J. C. 8602
Merwe, M. de V. van der 2282, 5452
Merwe, M. J. van der 3018
Merwe, M. van der 2286
Merzlyak, M. N. 4520
Mesa, O. 4738
Meshi, T. 8721
Meshram, M. K. 3119, 7899
Meskat, A. 4689
Mesnard, J. M. 2588, 5090
Messiaen, C. M. 4047
Messing, J. 300
Mesterházy, Á. 854, 3553, 8271
Métay, C. 3998
Metevia, L. 4191
Métraux, J. P. 1026, 2343, 6596, 7418
Metsue, M. 8561
Metwally, A. H. 2175, 7032
Metwally, M. 5022, 6639, 6699
Metzger, M. 1053
Meulemans, M. 6259
Meulewaeter, F. 5505
Meurer-Grimes, B. M. 7383
Meurs, C. 3098, 5065, 7059
Mevel, A. 3189
Mew, T. W. 95, 920, 1463, 2752, 3651, 3653, 4429, 5944, 5953, 7558, 7560, 8379
Meyer, C. 8253
Meyer, J. 6679
Meyer, J. A. 3230
Meyer, M. 802
Meyer, U. 7731
Meza-Basso, L. 7636
Meza Z., R. 6107
Mezentseva, O. Yu. 780
Mezzalama, M. 7437
Mgonja, A. 6649
Mi, J. J. 2593
Mi-jiao, F. 4066
Mian, I. H. 6393
Miao, H. Q. 6170
Miao, V. P. W. 6020-6021
Michailides, T. J. 2973, 3042, 7788, 7812
Michalakis, Y. 650
Michalczuk, L. 5420
Michalik, B. 8498
Michelmore, R. 1005
Michelmore, R. W. 734, 3759, 4561
Michelsen, A. 1842
Michereff, S. J. 6707
Miczyński, K. 4874, 5587
Middelburg, M. C. G. 6264
Miedaner, T. 3590-3591, 5908, 6691, 7494
Mielke, M. E. 3141
Mier, C. 2645
Miersch, O. 5026
Migahed, F. 531
Migeon, J. L. 7477
Migheli, Q. 617
Migliore, P. M. 2709
Mihail, J. D. 7848
Mijatović, M. 8556
Mijavec, A. 5928
Mikami, N. 3312
Mikec, I. 2945
Mikhaĭlin, N. V. 2641
Mikhaĭlina, N. I. 2641
Mikhovich, F. I. 5285
Mikite, G. 4108
Mikityuk, L. V. 6648
Mikkelsen, J. D. 1538
Miklas, P. N. 3684, 4475, 8439, 8442
Mikolinskaya, N. M. 535
Mikoshiba, Y. 352, 1933
Mikulás, J. 7780
Mikuriya, H. 1458
Miladinović, Ž. 8574
Milagres, J. C. 1525
Milam, M. R. 1437
Milanova, M. 8553, 8555
Miles, C. J. 4109
Miles, W. S. 7479
Milevoj, L. 117
Milgroom, M. G. 285, 2292, 7354, 7811, 8666
Milholland, R. D. 7773
Miliadis, G. E. 6939
Miliczky, E. R. 2830, 4526
Milieva, E. 8554
Miljcović, I. 6929
Miljević, S. 6158
Milkus, B. N. 3236
Millar, C. S. 3394
Miller, A. L. 4483
Miller, D. C. 2319
Miller, F. R. 305, 2717, 3615-3616, 4403, 7512, 8357
Miller, H. G. 8525
Miller, I. 4031
Miller, J. B. 7013
Miller, J. D. 5138, 7487
Miller, J. F. 524
Miller, J. W. 8821
Miller, L. C. 6332
Miller, M. E. 8602
Miller, M. H. 2517
Miller, N. R. 834
Miller, O. K., Jr. 1269, 4136, 6469, 6489
Miller, P. R. 594
Miller, R. M. 4119
Miller, R. W. 8625
Miller, S. A. 6573, 7128
Miller, S. D. 7580
Miller, S. J. 3322
Miller, S. L. 3329, 4134
Miller, S. S. 5678
Miller, T. 7115-7116
Miller, W. A. 1342, 3738, 5245, 8200
Milliano, W. A. J. de 1434, 1444, 2720, 3505, 3607-3608, 4404, 5932
Milling, R. J. 4105
Millner, P. 6486
Millner, P. D. 2521
Mills, D. 3537
Mills, L. J. 2117
Mills, P. R. 1929, 2155, 3865, 4616, 6974, 7776, 7802
Millstein, J. A. 8790
Milne, R. G. 2565, 8202
Milošević, D. 1504, 6043-6044
Milus, E. A. 5133
Min, B. R. 7347-7348
Min, Y. J. 1337
Minafra, A. 485, 3854
Minamishima, M. 5220
Miñano Fernandez, F. 782
Mindermann, R. 4885
Mindich, L. 4925, 4928-4929, 4931-4932
Mindrinos, M. N. 662, 5266
Mineev, V. G. 1826
Minerbi, S. 6228
Mingazzini, M. 8116
Minghetti, A. 1879

Mingins, C. 1949
Minischetti, P. 3885
Mink, G. I. 191, 211, 1027, 2585, 6936, 8681
Mino, Y. 7860
Minobe, Y. 2912, 3444, 8210
Minocha, S. C. 1784
Minor, H. C. 5248
Minsavage, G. V. 7199
Minter, D. W. 3394
Minton, E. B. 1133
Minton, N. A. 3070, 4027
Mintz, A. S. 1912
Minuto, G. 6870
Minyard, J. P. 1230
Minyard, J. P., Jr. 33
Mir, G. N. 5970
Mir, N. M. 4428
Mirabolfathy, M. 1705-1707, 1714, 1734
Miranda, G. J. 3635, 7531
Miranda, J. E. C. 4579
Mirenna, L. 1817
Mirnaya, V. A. 8278
Mirocha, C. J. 5338, 7859, 8397
Mironova, G. V. 4310
Miroshnichenko, N. A. 1344
Miroshnikova, L. K. 2755
Mirza, M. 4861, 5584
Mirza, U. A. 8397
Misaghi, I. J. 1543
Misari, S. M. 7038
Mischiati, P. 1848
Mischke, C. F. 6352
Mise, K. 5080
Mishina, G. N. 5178, 8328
Mishra, A. 211, 4249, 5280
Mishra, A. K. 1834
Mishra, B. B. 3729
Mishra, D. K. 8690
Mishra, M. 2733, 6464
Mishra, M. D. 3637, 5950
Mishra, R. K. 4096-4097
Mishra, R. P. 5870-5871
Mishra, R. R. 1274, 4981, 5913, 6813
Mishra, T. K. 959-960
Misra, A. K. 1450, 2074, 5212, 7534
Misra, A. R. 4948
Misra, B. M. 4813, 7919, 8780
Misra, G. P. 3912
Misra, S. 1350
Mitchell, D. J. 2146, 2265, 2341, 7626
Mitchell, D. T. 4128, 6467, 6481
Mitchell, F. G. 3001
Mitchell, R. E. 4934
Mitchell, R. J. 4126
Mitchell, S. J. 7016, 8250
Mitchell, T. G. 1655
Mitchelson, K. 5765
Mithal, S. K. 3584
Mithen, R. 115, 4697
Mithen, R. F. 2865
Mitra, A. 7349
Mitra, D. K. 1554
Mitra, R. 1657
Mittal, R. K. 3963, 7629
Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem 458
Mittelstaedt, W. 83, 7219
Mittermeier, L. 8713
Miura, K. 5815
Miura, L. 2171
Miura, T. 1552, 6262
Miyagi, Y. 5955
Miyai, S. 352
Miyano, M. 157
Miyao, G. 6090
Miyasaka, A. 8157
Miyashita, M. 8619
Miyashita, S. 8157
Miyashita, Y. 1245
Miyata, M. 6763
Mizen, K. A. 5985
Mizukoshi, T. 6756-6757, 6776
Mizutani, J. 2482, 4194, 8509
Mkervali, V. G. 545, 5122
Mmbaga, M. T. 2122, 2796, 7607
Mo, J. Q. 8839
Modi, V. V. 3021
Moe, U. K. 2133
Moellenbeck, D. J. 5234
Moffat, A. S. 7386
Mogensen, B. B. 1236
Moghe, P. C. 6886
Mogi, S. 2087
Mohamed, B. E. 3851
Mohamed, M. F. 8449
Mohamed, M. S. 2062, 4392
Mohamed, S. H. 5841
Mohamed, Y. A. H. 5022
Mohammad Arif 8477
Mohan, J. 3624
Mohan, L. 311, 313, 893, 1438, 7517, 7663, 8852
Mohan, R. 812
Mohan, S. 1076, 1438, 1440, 2813, 4778, 7515
Mohan, S. K. 2161, 4528, 5912
Mohan, V. 6475-6476, 7290
Mohanan, C. 1146, 3135, 3966, 4797, 7910
Mohankumar, S. 2082
Mohanty, A. K. 3432
Mohinder Singh 2664
Moiseenko, L. I. 3448
Mokhtar Bennounane, L. 7117
Mokole, L. 7501
Moldenhauer, K. A. K. 5215, 7434
Moletti, M. 4054
Molhoek, W. M. L. 4548, 6071
Molina, A. 3493, 6275
Molina, R. 3329, 6504
Molina-Cano, J. L. 4361
Møller, B. L. 2040
Möllers, C. 2821, 6821
Molnar, A. 7678
Molnár, J. 2229
Molnár, M. 2950
Molnar, S. J. 4374
Molot, P. M. 2879
Moly 2134
Momol, M. T. 457, 1582
Monaco, C. 4177
Monastyrnaya, È. I. 255, 271, 859, 2739, 3557
Mondal, S. N. 4598
Mondardo, E. 2171
Monde, K. 4551, 5315
Mondini, R. 2994
Monem, A. M. A. 5137
Monette, P. L. 1347, 3994, 6174
Monga, D. 3709
Monhanraj, D. 3909
Monma, S. 8542
Monneuse, M. O. 565
Monod, M. 5698
Monotti, M. 521
Monsion, M. 3938, 6589
Montagu, M. van 112-113, 145, 6538, 8219
Montague, W. C., Jr. 8105
Montalbini, P. 945, 3528, 3681
Montana, J. R. 833
Montanari, M. 3089
Montanelli, C. 6829
Montasser, M. S. 7422
Monte, E. 540-541, 2442
Monteagudo, F. J. 7102
Monteagudo, V. 3106
Montecchi, A. 3346
Montero, J. C. 1060
Montes-García, N. 1430, 1435, 1439
Montesinos, E. 2966-2967
Monti, L. M. 8242
Monticelli, E. 6969
Montiel, R. 7006
Montoya, J. L. 4361
Monus, I. 2950
Moody, B. H. 8755
Mooibroek, H. 3378
Moore, A. E. P. 4139
Moore, J. A. 36
Moore, J. D. 8693
Moore, J. N. 5820
Moore, P. J. 1662
Moore, R. T. 7379
Moore, W. F. 5225
Moore-Vale, D. 8085
Moorman, G. W. 73, 5372
Moots, C. K. 4465
Mor, Y. 7137, 8813
Mora, G. 7002
Mora, M. S. 6125
Mora-Aguilera, G. 4684
Mora N., O. A. 4479
Moraes, J. A. P. V. 2773
Moraes, M. A. 2773
Moraes, M. H. D. 4579, 8348
Moraes E. Souza, M. A. de 1240
Moraga P., E. 4988
Morales, F. 1141
Morales, V. M. 7324, 8511
Morant, M. A. 5923
Morar', V. I. 875
Mordukhova, E. A. 6607
More, H. G. 5197
More, W. D. 7509
Moreau, R. A. 673, 1204
Moreira, A. C. 4621
Morel M. 6410
Morelet, M. 600, 5553, 7938
Morelock, T. E. 5820, 8518
Moreno, P. 3872, 4664, 6203-6204
Moreno Rico, O. 6894, 7100
Moreno Vega, J. C. 6966
Moret Benaset, A. 2553-2554
Moretto, K. C. K. 6871
Morgan, A. F. 6404
Morgan, C. G. T. 7743
Morgan, D. P. 2973, 3042, 7812
Morgan, D. R. 3301
Morgan, P. 5035
Morgan, R. K. 2477
Morgan-Jones, G. 769, 776, 1037, 1469, 1910, 8403
Morgham, A. T. 7895
Mori, T. 7254
Moricca, S. 3167, 4850
Morikawa, T. 7970
Morin, J. P. 2319
Morin, L. 3211
Moriondo, F. 3126
Moriones, E. 4354
Morita, A. 1611, 6933, 6935
Morita, K. 7537
Morita, S. 1452, 6747, 7145
Morita, Y. 8818
Moriyama, M. 2482
Moromizato, Z. 6522, 6530
Morozov, S. Yu. 1332, 1344, 5096
Morozova, E. V. 1512, 2158
Morozova, N. E. 8246
Morra, L. 2903
Morrall, R. A. A. 519, 1872, 4488, 8670
Morrell, J. J. 1689, 3166, 3991, 4192
Morris, B. 1328
Morris, C. E. 3811
Morris, J. 5653
Morris, J. B. 7027
Morris, T. I. 4357
Morris, T. J. 3441, 6587
Morris, V. J. 2444
Morris, V. L. 3776
Morrison, D. J. 1717, 2390
Morrison, J. E., Jr. 8038
Morrison, R. J. 1631
Morrow, A. C. 8403
Mort, A. J. 4781
Mortensen, C. N. 6[illegible]
Mortensen, K. 3472 5615, 7992
Mortimer, P. H. 5232
Morton, A. 2418, 3202
Morton, J. 5236
Morton, J. B. 3669, 4151, 6486
Morton, R. 3988
Morvan, C. le 3189
Morvan, G. 2232-2233, 7748
Morzières, J. P. 6151
Mosa, A. A. 3361, 8488
Moser, O. 5066
Moslem, M. A. 3194
Mosqueda-Cano, G. 7071
Moss, J. P. 3901, 5472
Mostafa, E. E. 2010, 2029, 2041
Mostafa, M. 6685
Mostert, D. P. 1702
Mostovaya, R. N. 3085
Motomura, T. 1613, 8833
Mouchacca, J. 6567
Mougeot, J. L. 2588, 5090
Moukhli, A. 4712
Mould, M. J. R. 933
Mouly, A. 5465
Mount, M. S. 3041
Mountain, W. L. 4898
Moursy, M. A. 6628-6629
Mousain, D. 91, 1845
Moussato, V. 5338
Mousset-Déclas, C. 2771
Moustafa, S. E. S. 4569
Moustafa-Mahmoud, S. M. 3112
Mouton, M. 1923, 3412, 7326
Moya, A. 5394
Moye, H. A. 27
Moyer, J. W. 989, 6067
Moyer, M. 2345
Moyer, M. B. 3932
Moza, P. N. 3296
Mozhaeva, K. A. 243
Mozingo, R. W. 8687
Možný, M. 4888
Mpiri, M. G. 5470
Mpofu, S. I. 8715
Mpunami, A. 3059-3061
Mráz, F. 2672
Msuku, W. A. B. 2797
Mtisi, E. 1434
Mtui, T. A. 8311
Mu, X. Q. 5184
Mu, Y. S. 905
Muchovej, J. J. 6221, 7079
Mucignat, D. 2250
Mudzengerere, E. 5513
Muehlbauer, F. J. 955, 5269, 8457
Mueller, G. M. 7289
Mueller, S. F. 3148, 3162
Mueller, W. C. 7895
Muendel, H. H. 1631
Mughal, S. M. 2782, 2894, 5329
Mughogho, L. 3607
Mughogho, L. K. 2069, 5198, 5933
Mugnai, L. 6299
Mugnier, J. 3500
Muheet, A. 1540
Mühlbach, H. P. 4247
Muilenburg, G. A. 5984
Muimba-Kankolongo, A. 6831
Muiño, B. L. 3106-3107
Muir, P. S. 7929
Muirhead, I. F. 7005
Muisers, J. M. 4585
Mukai, Y. 1992
Mukerjee, S. K. 5689
Mukerji, K. G. 4121, 4145-4146, 4168, 5696, 6492, 6498
Mukerji, S. 5406
Mukhamedzhanov, M. V. 7075
Mukherjee, N. 668, 970, 1602, 8147
Mukherjee, P. K. 232, 8169
Mukherjee, P. S. 8118, 8691
Mukherjee, S. N. 4809
Mukhopadhyay, A. N. 232, 1198, 1650-1651, 1773, 2438, 4497, 7175, 8169
Mukhopadhyay, M. 969
Mukhopadhyay, S. 902, 1602, 6714
Mukhtar, J. 6022, 6026
Mukundan, U. 611
Mukunya, D. M. 7864, 8333
Mulcahy, D. L. 8779
Mulin, Yu. I. 422
Mullan, E. 3378
Mullen, B. 6090
Mullen, J. M. 4860
Mullen, L. A. 2702

Muller, E. 70
Müller, G. W. 5440
Müller, H. M. 4348
Müller, J. 7690
Müller, K. 3581
Müller, M. 2949
Muller, S. 2735
Müller, W. J. 3988
Mullineaux, P. M. 1937, 3438
Mullinix, B. G. 3070, 6248, 7355, 8693
Mullison, W. R. 54
Mulongoy, K. 2527
Munawar Khan 8494-8495
Munch, D. T. 3261
Mundt, C. C. 263, 1774, 2123, 4323, 4330, 4332
Mundy, J. 1131
Munekata, M. 6748
Munger, H. M. 5353
Munie, L. A. 3279
Munir Ahmad 3077, 3084
Muniyappa, V. 350, 414, 4577, 7675, 7847
Munk, L. 4368
Munkvold, G. P. 2997, 8633
Muñoz, J. O. 2828
Muñoz, R. 6963, 8626
Muñoz C., C. A. 2200
Muñoz López, M. C. 7913
Muñoz Medina, A. 782
Muñoz O., A. 6775
Muñoz Orozco, A. 6782
Munro, L. M. 3592
Munshi, G. D. 4338
Munson, S. 8754
Munţean, L. 8832
Munteanu, I. 3460, 3583
Munthe, K. 132, 138, 238
Munty, D. S. 1428
Münzenberger, B. 4967
Mur, G. 4648
Mur, L. A. J. 2446
Murakami, N. 74
Muraki, M. 1536
Murakishi, H. H. 4578
Murali, N. S. 5792, 5795, 7435
Murant, A. F. 4257, 5067, 5085-5086
Muras, V. A. 1216
Murata, H. 4923, 6402
Murata, N. 5107
Murata, T. 3303
Mureşan, F. 3460
Murisier, F. 2981
Muro, J. 2645
Muromtsev, G. S. 6547
Murphy, J. P. 3587
Murphy, L. S. 7421
Murphy, R. J. 7984
Murray, B. 60
Murray, D. C. 12
Murray, F. R. 2756
Murray, G. 6693
Murthy, K. V. V. S. 5381
Murthy, N. S. 7057
Muruganandam, V. 4203
Musetti, R. 2596, 6593
Mushegyan, A. R. 3101
Musil, M. 4279
Musra, S. 1349
Mussa, A. E. 7004
Mustaq Ahmad 4428, 8378
Mustea, D. 3460
Mustelier, A. 3105
Mustika, I. 623
Mustonen, H. M. 7784
Musuku, A. 7656
Muta, T. 7041
Muthaiyan, M. C. 2406
Muthappa, B. N. 1252
Muthukrishnan, K. 3078, 3081
Muthumary, J. 7340
Muthumeenakshi, S. 4616
Muthusamy, M. 3195, 7839
Mutkekar, M. L. 4317
Muyanga, S. 8274
Muyolo, G. 6831
Muyolo, N. G. 5240, 5989
Mwang'ombe, A. W. 6268, 7864
My, J. 7242
Myakshina, T. N. 3857
Myatt, P. M. 6800
Mycock, D. J. 130, 303, 879
Myers, D. K. 7564
Myers, L. D. 7449
Myers, M. 7280
Myers, R. F. 1724
Myhre, D. L. 6992
Myint, S. S. 2141
Mylswami, V. 7829
Myren, D. T. 586
Myrholm, C. L. 6311
Nabeshima, H. 3175
Nachmias, A. 2165
Nadal Puigdefabregas, M. 2553-2554
Nádaská, M. 4014
Nadler, S. A. 4181
Naftaliev, N. M. 4636
Nag Raj, T. R. 4225
Nagamatsu, S. 2180
Nagao, K. 5080
Nagao, M. A. 7813
Nagao, Y. 6838
Nagaoka, M. 7664
Nagarajan, K. 7057
Nagarajan, S. 256, 841, 2668, 3043, 3523, 3526, 5149, 8299
Nagaraju 5213, 6720
Nagaraju, V. 6791
Nagarathna, K. C. 6709
Nagasawa, T. 7589
Nagata, N. 6341
Nagata, N. M. 527
Nagata, R. T. 421, 4565
Nagata, T. 4591
Nagatani, A. 6527
Nagle, M. E. 3726
Nagler, C. 4397
Nagler, M. 4397
Nagorskaya, V. P. 1323
Nagpala, P. 2347, 5510
Nagpala, P. G. 387, 5642
Naguib, K. 6639, 6699
Nagy, E. 3460
Nagy, G. 5039
Nagy, P. D. 5095
Naĭdenov, A. S. 2042
Naidu, B. S. 5213
Naidu, R. 3195
Naidu, R. A. 5929
Naik, K. S. 1023, 1634, 2321, 3198, 4324
Naik, V. R. 1445
Nair, K. R. 6242
Nair, M. C. 3197, 4441
Nair, M. G. 2514
Nair, N. G. 6968
Nair, S. K. 6500
Naitam, N. R. 2905
Naito, H. 2087, 5219
Nakagawa, A. 357
Nakai, H. 339
Nakai, T. 8150
Nakajima, H. 5879
Nakajima, M. 5502
Nakajima, T. 1933
Nakaminami, H. 6766
Nakamoto, K. 7793
Nakamura, H. 8150
Nakamura, I. 5091, 5502
Nakamura, K. 2902
Nakamura, S. 3004, 6763, 7806
Nakamura, T. 1591
Nakamura, Y. 3284, 6825
Nakano, M. 1530, 8544
Nakano, T. 2245, 5595, 7775
Nakashima, H. 2964, 7407
Nakashima, K. 3634, 5107
Nakashima, N. 6522
Nakasone, W. 7146
Nakasuga, T. 6803
Nakasuji, F. 2569
Nakata, A. 3295, 6446
Nakata, E. 5074
Nakatani, F. 6837
Nakatsuka, S. 7797
Nakaya, T. 5100
Nakayama, A. 7255
Nakayama, J. 1217
Nakayama, K. 5334, 5364, 5421-5422, 5578
Nakayama, M. 7882
Nakayama, T. 5220, 6840
Nakayashiki, H. 6591
Nakazaki, K. 5300
Nakazaki, Y. 2912
Nakazawa, Y. 5376, 5422, 6900
Nakazima, D. 1301
Nakhla, M. K. 4569
Nakkeeran, S. 1184
Nakov, B. 6947
Nakova, M. 6947
Naldini, B. 3126
Nalli, R. 4300
Namae, Y. 6803
Namai, T. 6841
Namba, S. 172, 212, 3838, 5596, 8211, 8818
Nambiar, K. K. N. 1098
Nameth, S. T. 5557
Namiki, F. 1535
Nan, C. H. 351
Nan, Z. B. 8420
Nance, E. L. 2528
Nance, W. L. 6310
Nanda, K. S. 4334
Nandan, R. 8462
Nanden-Amattaram, T. L. 1636
Nandi, B. 8118, 8691, 8762
Nandi, S. K. 8118, 8691
Nandita Sarkar 8463
Nandris, D. 1142-1143, 4787, 5521, 7902
Nanni, B. 4532
Napompeth, B. 4031
Naqvi, Q. A. 6876
Narain, A. 5211, 5476, 7549
Narasimham, P. 4543
Narayan, P. 8682
Narayan Rishi 5287
Narayana, Y. D. 2069
Narayanappa, M. 6303
Narayanasamy, P. 4413-4414, 4437, 5963, 7820, 7830, 7838, 7840
Nardo, E. A. B. de 5440
Narendra Singh 2182, 3911
Narendrappa, T. 5931
Nargund, V. B. 4324, 6661
Narikawa, T. 8542
Narinder Singh 2142
Narsinghani, V. G. 4485
Narula, K. L. 6836
Narware, H. R. 2298
Naryan Rishi 5597
Nascari, G. 6829
Nascimento, S. C. do 1240
Nascimento, W. M. 4579, 6013
Naseema, A. 3741
Nash, C. 6534-6535
Nasir, M. A. 2629
Nasiruddin, M. 5971
Nasr, A. A. 5730
Nasraoui, B. 1479, 4198, 6619
Nass, H. 2728
Nass A., H. A. 5204
Nasser, W. 661, 3239
Nassuth, A. 818
Nasu, H. 8603, 8624
Nasu, K. 8455-8456
Nataraj, S. P. 4010
Natarajan, K. 6475-6476, 7290
Natarajan, S. 2328
Nath, A. 6919
Nath, P. D. 5383
Nath, V. 312, 3132, 8822
Nathaniels, N. 1624
Natsuaki, K. T. 5570, 8208, 8436
Natsuaki, T. 5086, 5230, 6091, 8436, 8547
Natsui, T. 3712
Naude, S. P. 7973
Nault, L. R. 2707, 6695, 7499
Naumann, K. 1049, 3224
Nauta, M. 8130
Nautiyal, B. D. 3005
Navalinskienė, M. 7134
Navaratnam, S. J. 830
Navarro, C. 6243
Navarro, L. 4664
Navas-Castillo, J. 6203-6204
Navi, S. S. 4324, 5144, 5859
Navneet 609
Navot, N. 2190
Navushchanov, S. 1410, 6682
Nayak, M. 904
Nayak, M. L. 1220, 4009
Nayak, S. 4714
Nayar, S. K. 256, 262, 841, 2005, 3526, 4329, 8299
Naylor, R. E. L. 3592
Naza, I. 568
Nazareno, N. R. X. de 2715
Nazari, S. 7720
Nazarov, N. 2622
Nazarova, L. N. 259, 839, 3531
Nazarudin, S. B. 626
Nazim, M. 2652, 5139
Ndowora, T. 4657
Neate, S. M. 6575
Nebane, C. L. N. 2148
Nečesaný, V. 1902
Neck, T. 3269
Nedbálková, B. 7581
Nedělník, J. 2762, 3672, 7581, 8419
Nedobitkin, V. A. 3803
Nedobytkyn, V. A. 1036
Nee, H. H. 562
Neeraj 6492
Neeta Rani 5594
Neeta Sharma 1244, 2962, 3694
Negi, W. 6954
Negishi, H. 4062
Negrean, G. 771, 1900, 7371
Negrete D., C. 6191, 6970
Negri, J. D. de 6213
Negrotto, D. 4757
Neher, D. A. 142, 5254
Nehl, D. B. 7995
Neil, P. E. 5545
Neilson, H. 8806
Neinhuis, C. 6842
Nejidat, A. 1659, 7880
Nel, L. H. 2273
Nelson, C. D. 6310
Nelson, E. B. 345
Nelson, L. L. 4993
Nelson, L. R. 4341
Nelson, L. S. 2933
Nelson, P. E. 109, 3505, 4226, 5038, 8156
Nelson, R. 7526, 7558
Nelson, R. J. 5958
Nelson, R. S. 3933, 7396
Nelson, S. C. 2096, 4457, 7582
Nelson, S. D. 2504
Nemchinov, L. G. 2706
Nemec, S. 4160, 6986, 6992
Németh, J. 3691
Németh, L. 7602, 7855
Nemli, T. 4210, 4284, 7996
Nemoto, F. 6723, 6731
Nencini, A. 4596
Nene, Y. L. 375, 378, 961, 4493-4494, 6798, 8463
Neskorozhenyĭ, B. F. 3530
Nesme, X. 4811
Nespoulous, C. 7885, 8731
Nessler, C. L. 1878
Nester, E. W. 4914
Nesterov, V. S. 2558
Netherlands, Centre Technique de Cooperation Agricole et Rurale 575
Netherlands, Plantenziektenkundige Dienst Wageningen 4899
Neu, J. A. 21
Neucere, J. N. 304
Neuhaus, J. M. 2350, 4772
Neumann, G. L. 8095
Neumann, M. 8802
Neupane, F. P. 6905
Neupane, K. R. 2810
Neuvel, A. 3749
Neuvonen, S. 5533
Nevalainen, K. M. H. 743
Neve, R. A. 3202
Neves, J. C. L. 7282

Nevill, R. J. 4837, 8788
Newbury, H. J. 1963, 4863
Newcombe, G. 7097-7098
Newell, A. J. 5565
Newell, G. R. 6513
Newhook, F. J. 4535
Newman, E. I. 4293
Newman, J. S. 5573
Newman, S. E. 4854
Newsletter - Food & Fertilizer Technology Center 8853
Newson, E. I. 2488
Newton, A. C. 2036, 3330, 5895
Newton, R. P. 5235
Ng, B. B. 6025
Ng, S. Y. C. 8180
Ng, T. J. 5367, 7712
Ngeleka, K. 5992
Nguen Khong Min' 8552
N'Guessan, K. P. 1569
Nguyen Hong Minh 8552
Nguyen-The, C. 4628
Nguyen Thi Phong Lan 4438
Ni, C. F. 3317, 8122
Ni, S. S. 5321
Ni, W. C. 8322
Niandaiti, P. 3517
Niblack, T. L. 6752, 7592
Niblett, C. L. 182, 4245, 8209
Nicholas, D. A. 1476
Nicholas, N. S. 4847
Nichols, R. L. 4027
Nichols, W. A. 7884
Nicholson, P. 823, 3377
Nicholson, R. L. 948, 2039, 3315, 3622, 6633, 8357
Nicholson, W. J. 39
Nickell, C. D. 4465, 5991
Nickerson, K. W. 7103
Nickerson, N. L. 7769
Nicodemus, K. D. 2069
Nicolaisen, M. 5809
Nicolas, M. 4650
Nicolas, O. 798, 5064
Nicole, M. 1142-1143, 4787, 5521, 7902
Nicoletti, R. 2543
Nicoli, G. 1359
Nicotina, M. 7754
Nidiry, E. S. J. 2466
Niederer, M. 4135
Niedz, R. P. 7425
Niekerk, H. A. van 1987
Nielsen, B. J. 5685, 5866, 5899, 7236, 8285
Nielsen, J. 861, 5907
Nielsen, M. T. 7061, 7067-7068
Nielsen, P. V. 5798
Nielsen, S. L. 7640
Niemann, G. J. 5581
Niemczyk, E. 2951
Niepold, F. 671
Nierhaus-Wunderwald, D. 6302
Nieto, D. 7002
Nieto Illidge, L. 6739
Niggli, U. 2981
Nigh, E. L., Jr. 8526
Nigro, F. 3874
Niini, S. S. 7293
Nijkamp, H. J. J. 436
Nikale, R. B. 5585
Nikiforova, E. F. 148
Niklewska, T. 1854
Niklis, N. D. 6195
Nikolaev, O. N. 3643, 4423, 4425
Nikolova, G. 1471
Nikonorova, A. K. 3586, 5900
Niks, R. E. 863, 1984, 3503, 6645
Nilsson, B. 8238
Nilsson, C. 5838
Nilsson, O. 8735
Nimmi Kapkoti 6312
Ninawe, B. N. 567
Nipoti, P. 8535
Nirmala Kannan 546, 7863, 7865, 7928
Nirmaladevi, S. 6109
Nirmalnath P. J. 8585
Nisha Mathur 4866
Nishi, K. 5160-5161, 6766
Nishijima, W. 7813
Nishimoto, S. 2964
Nishimura, N. 1532
Nishimura, S. 6867, 6949, 7646, 7797, 8618, 8628
Nishio, T. 8542
Nishizawa, Y. 3285
Nitharwal, P. D. 2072
Nitika Khurana 7345
Nitta, H. 7793
Nitzan, R. 5119
Niu, J. Q. 3336
Niu, W. W. 3053
Niu, Y. C. 858
Nixon, P. 8047
Nizamuddin 2467, 6445
Nkongolo, K. K. 4296
Noaman, M. M. 2026
Nobuhara, T. 3371
Noda, S. 5172
Noegel, K. A. 8695
Noguchi, A. 5319, 5561
Noguera, R. 6097
Noirot, M. 1142-1143
Nojima, H. 7041
Noma, M. 157
Nomura, K. 2738, 5068, 5074, 8375
Nomura, Y. 7718, 7970, 8600
Nonaka, F. 1613, 7129, 8809, 8833
Nonaka, H. 6447, 6850
Nong, X. M. 338
Nono-Womdim, R. 8576
Noon, R. A. 8266
Noone, D. F. 8359
Noordeloos, M. E. 1752
Nordeen, R. O. 1962
Nordestgaard, A. 2089
Nordmark, L. 8241
Norelli, J. L. 2933
Noriega C., D. H. 7022
Norman, H. A. 6352
Norman, R. F. 6421
Normand, P. 4811
Northover, J. 4611
Norton, G. A. 5936
Norton, J. D. 6941
Norwegian Journal of Agricultural Sciences 6344
Notteghem, J. L. 915, 2079, 2742, 3641, 4426
Noussourou, M. 5120
Novak, F. J. 549
Novák, P. 6293
Novembre, A. D. L. C. 8348
Noviello, C. 2228, 4532
Novikov, V. K. 5058
Novikova, L. M. 4511
Novitskaya, L. N. 462
Novoa, C. O. y de 6946
Novotná. J. 5117
Nowacki, J. 5420
Nowak, D. J. 7937
Nozawa, H. 5206
Nozzolillo, C. 373
N'soukpoe'-Kossi, C. N. 7110
Nucifora, A. 2478, 2891
Nucifora, M. T. 2893
Nucifora, S. 2890, 2892
Nuenen, M. van 8030
Nuero, O. M. 4206
Nuez, F. 5355, 5366, 7707, 7711, 8587, 8590
Nugent, P. A. 4086
Numaguchi, K. 7044
Nuñez, D. 3106
Nurawan, A. 626, 3199
Nürnberger, T. 7155
Nus, A. 5878
Nuss, D. L. 106, 1621-1622, 3887, 6226, 8223, 8665
Nussbaum, P. 8072
Nutter, F. W., Jr. 4049, 7575
Nuzzaci, M. 2969, 3770
Nwankwo, C. F. 3875
Nyachiro, J. M. 8296
Nyanduza, C. 7021
Nygaard, S. L. 7579
Nyitrai, Á. 1382
Nyochembeng, L. M. 418
Nyquist, W. E. 452
Oakeshott, J. G. 3212
Oakford, M. J. 3829
Oatman, E. R. 6090
Obaji, U. A. 5354, 5356
Oberhänsli, T. 666
Oberholzer, H. 2849
Oberthur, L. E. 2690
Oberwinkler, F. 1166, 4967
Obieglo, U. 615
Obilana, A. B. 2720
Obregon, M. 6947
Obregón D., E. 6937
O'Brien, D. S. 7082
O'Brien, I. E. W. 8615
O'Brien, I. G. 3360
O'Brien, P. A. 3369
O'Brien, R. G. 6073, 6103
Obst, A. 4343
Obst, U. 5675
Obuchi, M. 8481
O'Callaghan, M. 3925
Ocampo, J. A. 1264, 5729
Ochi, M. 8211
Ochiai, M. 6923
Ochoa, F. 3011
Ochoo, M. J. 5380
O'Connell, R. J. 3426, 6534-6535
Oda, M. 6447
Odanaka, Y. 1225
O'Dell, M. 822
Odenbach, W. 2803
Odinokiĭ, N. S. 8279
Odintsova, I. G. 1395
Odintsova, T. I. 1028
Odio, N. 4774
O'Donnell, J. J. 4989
O'Donnell, K. 737, 3363
O'Donohue, J. B. 7869
Odvody, G. 3505, 3607
Odvody, G. N. 305, 309, 1434, 1442
Oebker, N. F. 1543
Oedjijono 5003
Oerke, E. C. 866
Oeser, B. 8152
Oesterhelt, G. 8102
Ofsoski, N. 8806
Ogampo A., F. 2337
O'Gara, F. 3245, 3925, 5653
O'Garro, L. W. 1010, 4550
Ogasawara, N. 1870
Ogasawara, S. 7793
Ogata, T. 6923
Ogawa, H. 5403-5404
Ogawa, J. 8640
Ogawa, J. M. 6142, 6912, 7730
Ogawa, K. 4356, 5311
Ogawa, N. 7254
Ogawa, T. 2084, 2749, 3646, 5808, 8721
Ogawa, T. M. 2076
Ogg, A. G., Jr. 290, 3693
Ogg, C. 7103
Ogilvie, I. S. 8807
Ogilvy, S. E. 6046
Ogle, H. J. 3997
Ogliari, P. J. 6774
Ognjanović, R. 3542
Ogoshi, A. 3361, 7969, 8488
Ogura, H. 1034
Oh, B. J. 3612
Oh, B. Y. 7544, 8373
Oh, I. S. 7704
Oh, J. Y. 2202
Oh, S. S. 3246-3247
Ohara, T. 7250
Ohashi, Y. 3765
Ohenoja, E. 8132
Ohenoja, M. 8132
Ohguchi, T. 2180, 6838
Ohishi, T. 5210
Ohki, S. T. 176, 7965
Ohkubo, N. 6933
Ohlrogge, J. B. 4769
Ohnishi, K. 3371
Ohno, T. 8618, 8628
Ohno, Y. 5230
Ohr, H. D. 3038
Ohsako, H. 1245
Ohsawa, T. 5378
Ohshima, K. 2589, 5100, 6811
Ohta, K. 5210, 5595, 6737
Ohtake, C. 3266
Ohto, Y. 6625
Ohtsuchi, K. 6262
Ohtsuka, N. 5376, 6900
Ohyama, H. 6449
Oicata L., M. 7048
Oihabi, A. 4687
Oijen, M. van 6819
Oikawa, I. 3712
Oikawa, K. 6839
Oiyama, I. 8029
Ojeda, J. C. 5893
Okabe, A. 7589
Okabe, K. 7660
Okada, K. 7146
Okada, Y. 5808, 8721
Okamoto, D. 739, 5036, 7354
Okamoto, Y. 8603
Okayama, K. 2245, 3780, 7775
Okazaki, H. 8168
Okazawa, M. 5403-5404, 5566
O'Keefe, D. M. 7298
Okeke, B. 6719
Okoli, C. A. N. 4220
Öktem, Y. E. 6108
Oku, H. 951, 4062, 8455-8456
Okubo, H. 3781
Okubo, T. 6761-6762
Okuda, S. 5230, 8436, 8547
Okuhara, K. 1457
Okumoto, Y. 6747
Okuno, T. 5080, 6591, 7882
Okuyama, S. 5074, 7250, 7685
Oladiran, A. O. 5337, 8492
Olah, A. F. 5253
Oldham, M. G. 1424
Oleĭnik, A. A. 1446
Olesen, J. E. 5853, 7448
Oleshchenko, L. T. 8723
Olinger, C. L. 1797
Oliva, P. 6251
Olive Davo, J. 782
Oliveira, D. A. 579, 6780
Oliveira, D. E. de 5084
Oliveira, E. 2526
Oliveira, H. de F. 1528
Oliveira, S. H. F. 5261, 6780
Oliveira Pita, F. A. de 2367
Oliveira Resende, R. de 5076
Oliver, R. P. 8162
Olivier 1120
Olivier, R. 3978
Olivieri, I. 650
Oliw, E. H. 1400
Olkkonen, V. M. 4931
Olkowski, W. 6598
Ollennu, L. A. 8714
Oloffs, P. C. 8103-8104
Olofsson, B. 975
Olori, L. 1813
Olorunda, A. O. 3875
Olsen, C. C. 7816
Olsen, C. E. 2040
Olson, L. W. 104, 730
Olson, M. H. 7799
Olson, W. H. 7812
Olsson, O. 8735
Olszack, W. R. 7231
Olszewski, N. E. 1936, 3437
Olufolaji, D. B. 6257
Olurinola, P. F. 6068
Olutiola, P. O. 2340
Om Gupta 5280
Om Prakash 1610
Omar, S. A. 7603
Omar, S. A. M. 8432
Omatsu, N. 1456, 6525
Ombir Singh 2399
Omelyukh, Ya. K. 69
Omer, A. D. 972
Ömura, S. 31
Omura, T. 8368
Onan, E. 520, 568
Ondřej, M. 1488, 8453
Ondřejová, H. 2917
Öner, M. 7362

Ong, K. H. 6025
Oni, O. 4819
Oniki, M. 626
Onishchenko, A. N. 4262
Ono, M. 7697
Ono, Y. 362
Onodera, S. 4928, 4931
Onoğur, E. 520, 7781-7782
Onokpise, O. U. 4536
Onozato, T. 3004
Onsando, J. M. 4732-4733, 6082
Onstad, D. W. 1927
Onyike, N. B. N. 5038
Ooizumi, T. 8599
Ooka, J. J. 527
Oosawa, K. 2912
Ootsubo, H. 6803
Oparka, K. J. 2578
Ophel, K. 3861
Ophel, K. M. 7571, 7574, 8414
Opilo, L. V. 5490
Opina, O. S. 7035
Oppenheim, A. 6382
Oppenheim, A. B. 8090
Opperman, L. 7480
Oprea, M. 3171, 7749
Orazov, Kh. 1136
Orbeal, W. 3105
Ord, B. G. 3695
Ordentlich, A. 4179
Ordon, F. 874, 5886
Ordosgoitti F., A. 3080, 6200
O'Reilly, P. 8099
Orekhova, V. A. 3085
Orellana, F. 3058
Orellana Aguilar, H. 5890
Orita, H. 6933
Orji, C. N. 2071
Orlandini, S. 2246
Orliac, S. 3837
Orlikowski, L. B. 3992
Orloff, S. 6069
Orlov, P. A. 8339
Ormrod, D. J. 6051
Orolaza, N. P. 8559
Orozco de A., M. 1701
Orozco S., M. 6976
Orozco Santos, M. 6981, 6990
Orr, J. 6090
Ortega, J. 4200
Ortego, F. 4354
Orth, A. B. 1239
Ortiz, F. H. 3688
Ortíz, M. 4741-4746
Ortiz, R. 5435
Ortiz Borrero, M. 3182-3183
Ortíz Enríquez, J. E. 7037
Ortolani, D. B. 2881
Oruade-Dimaro, E. A. 4784
Orum, T. V. 8
Osa, J. de la 3868
Osada, R. 7249
Osada K., S. 5975
Osada Kawasoe, S. 5869
Osaki, T. 7965
Osbourn, J. K. 1661, 3097
Oshima, M. 3765
Oskarsen, H. 2027
Osler, R. 1571, 2591, 3856, 4265, 6593, 6956
Osman, A. 2570
Osman, H. A. 5723
Osman, M. 5022
Osman, S. F. 673, 1204
Osman, T. A. M. 7412
Osonubi, O. 2527
Osorio, J. 2721
Osorio, J. A. 358
Osorio, M. 1169
Osorio Cardona, J. A. 1957
Osswald, W. F. 4816, 4846, 7425
Østergård, H. 4368
Ostrovskiĭ, M. A. 4425
Ostry, M. E. 7917
Osuji, G. 2325
Osuka, R. 5293-5294
O'Sullivan, D. J. 3245, 5653
O'Sullivan, P. J. 761
O'Sullivan E. 1121
Ota, T. 1555, 6954
Otani, H. 2968, 3816, 6867, 7797, 8612, 8618
Otani, T. 3712
Otazo López, J. G. de 2932
Othman, W. M. W. 5238
Otim-Nape, G. W. 6832
Otrysko, B. E. 3724
Otten, L. 1205, 6396, 8030
Otto, G. 4618, 5410
Otto, H. 6169
Ottow, J. C. G. 2507
Ouchi, S. 3316, 6411
Oudejans, J. 8042
Ouellette, G. B. 4787
Ouf, M. F. 2247
Ouf, S. A. 7244
Ousmane, E. 4780
Ouyang, Y. 786
Ouyang, Y. S. 5781
Owen, J. L. 2542
Owens, J. R. 5983
Owens, L. D. 1962
Owens, R. A. 2575
Owens y de Novoa, C. 6946
Ownley, B. H. 8810
Owuor, P. O. 4732
Oxelfelt, P. 3427, 5062
Oxley, S. 8284
Oyanagi, A. 8258
Oyarzun, J. I. 2254
Oyarzun, P. 6792-6793
Ozaki, K. 7965, 8603
Özbayram, Ç. 2824
Özbek, T. 5831, 7674
Özdemir, Y. 4576
Özelkök, S. 5419
Özer, N. 760
Ozkan, H. E. 3283
Pace, G. 3770
Pacheco, A. C. 886
Pachlewski, R. 1846, 5710
Pack, S. E. 29, 6443
Pacumbaba, E. P. 1633
Pacumbaba, R. P. 418, 3677
Paczuski, R. 5485
Padaganur, G. M. 383, 971, 1023
Paderes, D. E. 337
Padgett, G. B. 2106
Padilla, V. M. 4985
Padmanaban, P. 1645, 3909
Padmanabhan, S. 3016
Padmavathi, V. 5695
Paduch-Cichal, E. 5289
Paduch-Cichal, E. M. 5569
Padulosi R., S. 2831
Paek, K. Y. 7304
Paet, C. N. 4516
Page, B. G. 7207
Page, R. le 4703
Pahl, A. 1053
Paik, S. B. 7843
Paĭkova, I. V. 2524
Paillassa, E. 3860
Pain, N. A. 3426
Paine, T. D. 6309
Paiva, N. L. 4456
Pakkanen, R. 4920
Pal, A. B. 6791
Pal, A. K. 8843-8844
Pal, J. 6884
Pal, M. 5950
Pal, V. 5966
Palacino, J. H. 5724
Palacios-Prü, E. 2862
Palacios-Prü, E. L. 7764
Palakshappa, M. G. 3609, 7153
Palanisamy, S. 7517
Palaverzhich, B. 8349
Palazón Español, C. 2907, 6122-6123, 6887, 8579
Palazzo, D. 4999
Palejwala, V. A. 3021
Palenzuela, I. 4668
Palit, R. 4418
Pall, B. S. 2726-2727, 2815, 5934
Palladini, L. A. 498
Pallas, V. 3452
Palloix, A. 6877, 6880, 8576
Palm, M. E. 636, 3172
Palma, J. M. 4147
Palmans, E. 8027
Palmer, H. 8582
Palmer, M. A. 4213
Palmer, R. 2938
Palmer, R. G. 7600
Palminha, J. 10
Pålsheden, H. 2450
Paludan, N. 789
Palukaitis, P. 1129, 1669
Palumbo, M. 3770
Palummeri, M. 3468
Palva, E. T. 658, 4775, 4920
Palva, I. 4920
Palva, T. K. 4775
Pan, N. S. 5818
Pan, Q. H. 5217
Pan, S. 916, 992, 1018
Pan, S. Q. 1130
Pan, X. P. 1401
Pan, X. R. 6316
Pan, Y. J. 8834
Panabières, F. 7065
Panaccione, D. G. 3370
Panara, F. 8125
Panattoni, A. 5834
Pancaldi, D. 3518, 5889
Panchabhavi, K. S. 573, 8356
Panconesi, A. 3985
Panda, R. K. 6338
Pande, A. 3706, 5563, 6432, 7365
Pande, P. C. 6822
Pande, S. 3608, 4404, 5198, 5929, 5933
Pande, V. S. 5968
Pandey, A. K. 4824
Pandey, B. K. 960
Pandey, K. N. 5850, 6312
Pandey, P. C. 4809, 4813, 6295, 6952
Pandey, P. K. 1354
Pandey, S. 5186
Pandey, S. J. 6831
Pandey, S. N. 1485
Pandey, U. B. 3750
Pandher, M. S. 4150
Pandian, I. R. S. 8572
Pandy, B. N. 3984
Panetta, J. D. 3218
Pang, L. 7066
Pang, S. Z. 2347
Pani, R. 6323
Panić, M. 2934
Panicker, S. 7343
Panikkar, A. O. N. 3961
Paningbatan, R. A. 7035
Pankaj Gupta 7732
Pan'kina, O. I. 4853
Pankotai-Gilinger, M. 1830
Panković, D. 2302
Pankow, W. 4135
Panneton, B. 7213
Panopoulos, N. J. 371, 662, 5266
Panwar, M. S. 5966
Paoletti, E. 4804
Paoli, G. de 2500
Paoli, M. de 2994
Paolini, M. 4592
Papathakis, M. L. 1226
Papavizas, G. C. 1968
Paplauskienė, V. 3671
Paplomatas, E. J. 3117, 3769, 5806, 5835
Pappas, A. C. 5832
Pappelis, A. J. 1873, 5306
Pappu, H. R. 4245, 8209
Pappu, S. S. 4245, 8209
Papua New Guinea, Oil Palm Research Association 2311
Paradela Filho, O. 367, 5518
Paramasivam, K. 3065
Parameswaran, T. N. 4001
Paramjit Singh 3787, 4593
Paran, I. 1005, 3759, 4561
Paranjape, V. 7881
Parasahar, R. D. 3732
Paraschivu, M. 3460
Parashar, R. D. 2685, 2819, 3656, 4507-4508, 8461
Parbery, D. G. 4911
Parbu, S. 4266
Pardy, K. E. 7082
Paré, P. W. 6352
Pares, R. D. 807, 5060
Pares, R. D. A. 5601
Parfenyuk, A. I. 8183
Pargney, J. C. 5700, 6480
Parguey-Leduc, A. 5875
Pariĭ, I. F. 2939
Parijs, J. van 7901
Parikka, P. 7766
Paris, H. S. 8601
Parisi, A. 4823
Parisi, L. 7734
Pařízek, P. 3496
Park, C. S. 395, 3711, 6806, 8476
Park, D. Y. 1021
Park, E. H. 5205
Park, K. S. 8683
Park, K. W. 4537
Park, P. 8612, 8618, 8628
Park, R. F. 1390
Park, S. D. 322, 322
Park, S. H. 4896, 5391
Park, S. J. 6784
Park, S. K. 2202
Park, S. S. 8696
Park, W. M. 7594
Park, Y. H. 3113, 7701
Park, Y. S. 7701, 8373
Parkash, O. 896
Parkash, S. 3700-3701
Parkash, V. 5154
Parker, A. 5616
Parker, G. G. 8782
Parker, J. E. 4066, 7155
Parker, J. M. 3715
Parker, K. C. 4613, 6149
Parker, P. 636
Parks, C. A. 8768
Parks, P. 6232
Parladé, J. 3349, 7294
Parlevliet, J. E. 1978, 2744
Parochetti, J. V. 7231
Parra, E. 3106
Parrino, M. G. 8252
Parrish, J. R. 8113
Parrott, W. A. 1467
Parrotta, J. A. 5544
Parry, D. W. 3512, 3556
Parsadi-Sewkaransing, M. 1636
Parshina, T. V. 8320
Parsons, D. J. 240
Partsvaniya, M. Sh. 68
Paruthi, I. J. 3509
Parvez, S. 3194
Pârvu, M. 6612
Paschal, E. H., II 940
Paschalati, S. F. 891, 2039, 2066, 6621
Pascoe, I. G. 1697
Pascual, S. 3847, 7759
Pasichnik, L. A. 6692
Pasini, C. 2543
Pasko, P. 6882-6883
Pasqualini, S. 8125
Passeri, S. 6944
Passerini, G. 3186
Passi, S. 3722
Paster, N. 3595, 5119
Pastor-Corrales, M. A. 8448
Paszkiewicz, Z. 937
Pataky, J. K. 1417, 1553, 2057-2058
Patangrao, D. A. 2905
Patel, B. N. 7056, 7878
Patel, G. S. 6105
Patel, H. V. 7878
Patel, I. D. 2326
Patel, K. K. 3756
Patel, K. V. 8386
Patel, M. J. 8700
Patel, M. V. 5225
Patel, R. B. 6105
Patel, T. C. 8386
Patel, U. S. 4824
Patel, V. P. 5806

Paternotte, S. J. 6902
Paterson, R. R. M. 5041
Pathak, K. N. 3477
Pathak, M. D. 6602, 7525
Pathak, R. B. 2464
Pathak, V. N. 3037, 5449
Pathan, M. A. 2785
Pathania, N. K. 1017
Pathirana, R. 7036
Patil, A. S. 2330
Patil, B. K. 4316
Patil, B. P. 2999
Patil, B. S. 8363
Patil, C. S. 2253
Patil, J. V. 3524-3525, 4316
Patil, M. B. 3967
Patil, M. D. 381
Patil, M. K. 2310
Patil, M. S. 1445, 3397, 4007
Patil, N. N. 3401
Patil, P. L. 1676, 5541
Patil, P. V. 8685
Patil, R. J. 3524-3525, 4316-4317
Patil, S. G. 2996, 3858
Patil, S. K. 2424
Patil, V. K. 7179
Patil, V. P. 2996, 3858, 7460
Patiño, B. 5029
Patkar, K. L. 7536
Patočka, J. 3964
Paton, A. M. 947
Patra, M. 998
Patrício, F. R. A. 2881
Patrikeeva, M. V. 1509
Patsakos, P. G. 6939
Patterson, C. A. 195
Patterson, C. L. 445
Patterson, M. E. 1046, 3736
Patton, R. L. 604
Pauer, G. D. C. 6250
Paul, B. 6551, 7117
Paul, H. 3917
Paul, K. B. 946
Paul, M. C. 5913
Paul, N. D. 3206, 6353
Paul, R. N. 4028
Paul, T. 4711
Paul, V. H. 3045, 3422
Paul, Y. S. 3392, 4466, 5778, 7356, 7975, 8275, 8828
Paulech, C. 3393
Paulin, J. P. 1572, 3827-3828, 4058
Paulino, V. T. 4977-4978, 4984, 6483
Paulitz, T. C. 938, 1477, 4606
Paulkhurana, S. M. 3730
Paulraj, L. 4550
Paulus, F. 6396
Paunović, S. 6153
Pavan, M. A. 444, 3792
Pavek, J. J. 2161
Paveley, N. D. 274
Pavičić, N. 6929
Pavlista, A. D. 983
Pavlova, I. A. 4295
Pavlova, T. V. 845, 1563
Pavlova, V. F. 2332
Pavlova, V. V. 3515
Pawirosoemardgo, S. 555
Pawlizki, K. H. 3302
Pawlyk, D. M. 8665
Paxton, J. D. 359
Payak, M. M. 7495
Payhak, K. N. 3228
Payne, G. 2345
Payne, G. A. 889
Payne, G. B. 3932
Payne, R. W. 8313
Payne, S. 1682
Payne, T. S. 1393
Paynter, V. A. 8798
Peaden, R. N. 4454
Peak, C. M. 5456
Pear, J. 3100
Pearce, K. 62
Pearce, R. B. 2397, 4113, 4840
Pearson, M. N. 1181-1182, 4011, 4879
Pearson, R. C. 6175, 6967
Peberdy, J. F. 1889
Pecetti, L. 2637
Pécsi, S. 7602, 7855
Pedersen, D. 6751, 7957
Pedersen, E. A. 269, 4488
Pedersen, W. L. 1424, 7245
Pederson, G. A. 348
Pederson, W. L. 4110
Pedley, J. 7206
Pedras, J. F. 2773
Pedrazzini, R. 2596
Pedreño, M. A. 6963
Pedroso, E. I. 1071
Pedroza Sandoval, A. 6623
Pedryc, A. 2977
Peer, R. 3995
Peerenboom, E. 3562
Peever, T. L. 285
Pegg, G. F. 2194, 8148
Pegg, K. G. 5455, 6103
Pegler, D. N. 4996, 7381
Pehu, E. 8473
Pei, H. Z. 8298
Pei, M. H. 7922
Peĭkova, Ĭ. 6947
Peirce, L. C. 8525
Peisl, S. 3270
Pejić, I. 8724
Pekhtereva, Ė. Sh. 919
Peláez, F. 1757
Peláez Abellán, I. 7328
Pelazza, N. 2736, 5964
Pelcher, L. E. 8511
Pelet, F. 2173, 5842, 6094, 6856
Pelikánová, J. 7985
Pell, E. J. 1239, 1426
Pell, K. 1866
Pell, M. 3311
Pellacani, M. A. 6179
Pellegrini, M. G. 7678
Pellicano, I. J. 1490
Pelmuş, A. 1486, 3460
Pelmuş, V. 1486, 3460
Pelt, J. A. van 2016
Pelter, G. 6051
Peltonen, J. 1387
Pen, J. 4765
Peña, J. I. 2502
Peña, L. 5326
Penaud, A. 4700, 4703, 8677
Penchev, E. 1627
Penčić, V. 4380
Peng, G. 478, 8629
Peng, G. L. 7539
Peng, S. B. 3676
Peng, S. Q. 324, 5208
Peng, S. Y. 5949
Peng, X. X. 5056, 7414
Peng, X. Z. 1337
Peng, Y. F. 3549
Pennazio, S. 942, 1935, 2144
Penner, G. A. 4374
Penner, R. 3757
Penney, D. C. 2631
Penney, R. E. 8489
Penningsfeld, F. 1278
Pennington, R. E. 2853
Pennisi, A. M. 6210, 6227
Pennycook, S. R. 4656
Pennypacker, B. W. 2774, 3666
Penrose, L. D. J. 2020
Penteado, M. F. P. 6741
Penttilä, M. E. 743
Pepin, H. S. 6166
Peplinski, J. D. 6301
Pera, J. 2512
Peralta, R. C. 23
Percich, J. A. 2754
Percival, A. 8097
Peregrín Córdoba, A. 2329
Peregrine, W. T. H. 8646
Pereira, H. G. 1321
Pereira, J. L. 550
Pereira, L. G. 8484
Pereira, R. 6337
Perellino, N. C. 1879
Perello, A. E. 4346, 4540
Perera, E. 3868
Peres, A. 8677
Peressini, S. 2250
Peresypkin, V. F. 1088
Peretyat'ko, V. G. 8704, 8708
Pereverzev, D. S. 1366-1367, 1520
Perez, A. 3882
Perez, A. M. 4985
Pérez, E. 7934
Pérez, J. A. 7751
Pérez, N. 4195
Pérez, P. 7935
Perez, P. 5012
Perez de Algaba, A. 540-541
Pérez Moral, E. 2502
Pérez Moreno, L. 7661-7662
Pérez Sendín, M. de los A. 5263
Perez Vicente, L. 3008
Perfect, T. J. 5632
Perfilova, N. V. 3857
Perik, P. J. M. 7113
Perju, T. 8832
Perkins, L. B. 2979
Perkins, T. D. 7904
Perko, J. 2173
Perkovskaya, G. Yu. 2861
Perkowski, J. 1988
Perl, M. 7876
Permin, O. 2639
Perner, B. 1789, 7690
Pernollet, J. C. 7320, 7885, 8731
Pérombelon, M. C. M. 6062
Peros, J. P. 3075, 4724, 7043
Perrin, R. 3345
Perring, T. M. 1030, 4594, 7706, 8586
Perry, K. L. 5050
Perry, R. 6843
Persecă, T. 5690
Persley, D. M. 5358
Persley, G. J. 5640
Persson, K. 2639
Pertot, I. 2591
Pesera, K. D. A. 6127
Peshney, N. L. 111, 687, 3111, 6886
Pessoa, A. C. 4164
Pestemer, W. 5665, 8049
Petat, J. M. 3960
Petch, G. M. 2546
Petcu, L. 3460
Petelina, G. G. 334, 4425
Peter, C. 7411
Peter, R. 7411
Peterbauer, C. 5001
Peterbauer, C. K. 4955
Peters, D. 1116, 1178, 4253, 4759, 5052, 5061, 5065, 5076
Peterschmitt, M. 878, 2050
Petersen, E. F. 7446
Petersen, L. 5839
Peterson, G. C. 305
Peterson, G. L. 6359
Peterson, L. G. 5962
Peterson, R. A. 5459
Peterson, R. E. 6363
Peterson, R. L. 703, 2492-2493, 2517-2518, 4139, 6504
Peterson, S. W. 7999
Petit, A. 3235, 6410
Petitprez, M. 486
Petkar, A. S. 686
Petkov, P. 6668
Petracek, P. D. 6428
Petrichenko, S. N. 8704
Petrini, O. 3133, 3144, 3640, 4805, 5609
Petrlík, Z. 4889
Petrolini, B. 15, 6413
Petrov, M. 2306
Petrova, N. A. 2611
Petrović, R. 5914
Petrunak, D. M. 1884
Petrusha, E. E. 5155
Pettersson, I. 4106
Pettinelli Júnior, A. 6697
Pettinetti, M. 5553
Pettitt, A. N. 2097
Petty, I. T. D. 1406
Petzold, R. 7278
Peumans, W. J. 7901
Peuša, H. 2659
Peusha, H. 2659
Peyruchaud, O. 8225
Pezet, R. 6182-6183
Pezzoni, A. 2994
Pfeffer, H. 740, 6236
Pfeffer, P. E. 3342, 5731
Pfeiffer, D. G. 3817
Pfeiffer, W. H. 5157-5158, 8312
Pfeilstetter, E. 788
Pfender, W. F. 2680, 5878
Pfleger, F. L. 1272, 4154
Pflüger, W. 8109
Phae, C. G. 8544
Pham Van Du 4438
Phatak, S. C. 5617, 7355, 7997
Phelps, R. A. 776
Phelps, R. H. 3082
Philippe, I. 486
Philipson, M. N. 8400
Phillips, A. J. L. 1147, 2792, 4792, 5028
Phillips, D. 321, 7273
Phillips, D. H. 2375
Phillips, G. C. 4542
Phillips, J. C. 379
Phillips, M. J. 8085
Phillips, P. 6169
Phillips, S. I. 1460
Phillips, W. G. 8099
Phillipson, J. D. 5697
Phipps, P. M. 5469
Phookan, A. K. 7846
Phul, P. S. 7588
Phytoma 4092
Phytoparasitica 4040
Phytopathological Society of Japan 8006-8017, 8019
Piano, S. 617
Piazzolla, P. 6244
Picard, C. 4811
Picard, E. 7466
Piccirillo, P. 4753, 4758, 6270, 7054
Picco, A. M. 6918
Piché, Y. 1862
Pichersky, E. 2190
Pichlmaier, J. 7160
Pickel, C. 6169
Picman, A. K. 4951
Pidek, A. 5420
Pidolplichko, V. N. 1981
Piekarczyk, K. 220
Piening, G. 7472
Piening, L. 6649
Pierce, M. L. 3957-3958, 4781
Pierini, N. 1813
Pierpoint, W. S. 2344
Pierrat, J. C. 5521, 7902
Pierson, E. 5162
Pierson, E. L. 853
Pierson, L. S., III 852
Pięta, D. 4478, 6347, 8443
Pieters, R. 8172
Pieterse, C. M. J. 977, 4524
Pietersen, G. 2778, 7590
Pietr, S. J. 11
Pietro, A. di 4176, 5000-5001
Pietrzak, T. 2419
Piglionica, V. 2994
Pike, K. S. 7566
Pillai, V. S. 7150
Pillmoor, J. B. 2463
Pillukat, A. 6478
Pilotti, M. 2889, 3169
Pilowsky, M. 2908, 5322
Pilz, F. 6
Pimbert, M. P. 224
Pimenta, A. L. 4065
Pimentel, D. 30, 5674
Pina, J. A. 4664
Piña Aguilar, J. J. 6908-6909
Pinck, L. 801, 5066, 5077, 5083, 7409, 8221
Pinck, M. 801, 5083, 8221
Pineda Torres, M. del C. 7080
Pingale, V. S. 3023
Pink, D. A. C. 4558, 5359
Pinkerton, J. N. 1623, 5462
Pinnell, H. D. 8785
Pinner, M. S. 927, 3440, 3487

Pinnow, D. L. 7027
Pino, F. A. 504
Pinochet, J. 1262
Pinon, J. 3137, 3972, 7918
Pintor-Toro, J. A. 7341
Piollat, M. T. 3545
Piontelli L., E. 1906
Piou, D. 7938
Pīrāgs, Dz. 1710
Pirhonen, M. 658
Piro, F. 4753, 7054
Pirone, T. P. 195, 806
Píša, S. 2887
Pishchick, V. N. 2848
Pisi, A. 662
Pisi, A. M. 2402
Piszker Z. 7417
Pitblado, R. 435
Pitblado, R. E. 8562
Pitera, E. 6143
Pitkethley, R. N. 2427
Pitman, W. D. 4989
Pitrat, M. 3784, 6133
Pitt, J. I. 4173, 6989
Pitta, G. P. B. 4005
Pittis, J. E. 8095
Pittman, R. N. 7027
Piva, C. A. dal 6774
Pizarro, A. C. 2073
Pizzinatto, M. A. 570, 2881, 3775, 3955
Pizzuto, J. C. 3978
Plail, R. 1585
Plakidas, A. G. 2401
Plant Pathology Society of Alberta 6373
Plant Protection Society, Taiwan 6372
Plas, C. H. van der 6071, 7135
Plaskitt, K. A. 3487
Plassard, C. 1845
Platonova, O. A. 2740-2741
Platt, H. W. 2836, 2844, 6052
Plattner, R. D. 109, 343, 8156
Pleij, C. W. A. 8219
Plenchette, C. 715, 3345
Pleše, N. 7133
Plesničar, M. 2302
Pless, C. D. 4444
Pliego-Alfaro, F. 8137
Plimmer, J. R. 1223
Ploeg, A. T. 1950, 3453, 8229
Ploetz, R. C. 493, 2260, 6977
Ploper, L. D. 8694
Plotnikova, J. 397
Plourde, A. 2634
Plumb, R. T. 821, 1315, 2702
Plumbley, R. A. 3884, 6975, 8500
Plummer, E. L. 4941
Plummer, R. M. 930
Pnini-Cohen, S. 6670
Poblete, F. 7636
Pochard, E. 8576
Podila, G. K. 515, 812
Podile, A. R. 6508
Podol'skikh, A. N. 7551
Poelwijk, F. van 5061
Poggi-Pollini, C. 900, 4264
Pogosyan, V. S. 4095
Pogue, G. P. 5105
Pohronezny, K. 1024
Pohto-Lahdenperä, A. 4175
Poirier-Hamon, S. 116
Pokorný, R. 8418
Polacco, M. 2582
Polak, A. 7313
Polák, J. 2980, 4727
Polák, Z. 1694, 1755, 3450, 5049
Poleshchuk, Yu. M. 4833
Polishook, J. D. 1174
Polityko, P. M. 839, 2622
Polizzi, G. 5330
Poll, J. T. K. 6854
Pollanco, A. 3106
Pollastro, S. 3299, 3376, 4202, 4956
Polle, A. 1163
Pollini, C. 3089
Pollini, C. P. 1570, 1587, 4264, 8521
Polozhenets, V. M. 1516
Polston, J. E. 1030, 5327
Poltronieri, L. S. 2415
Poltronieri, M. C. 2415
Polverari, A. 2691, 3681
Polyakova, A. M. 1323
Polyakova, A. V. 3313
Pomázi, A. 6671
Pombeiro, S. R. C. 4199
Pomier, M. 3062
Pompeu, A. S. 367, 6778
Pompi, V. 4609
Pomuzhak, I. G. 885
Ponce de León, N. 496
Ponce G., F. 6191, 6970, 7486
Ponce González, F. 6872, 6908-6909, 6915, 6966
Ponchet, J. 4849
Pone, S. P. 4011, 4879
Ponnappan, K. M. 1186
Pons, N. 3913
Ponsonnet, C. 4811
Ponstein, A. S. 5509
Pont, V. 6182-6183
Ponti, I. 2335, 3923-3924, 4631, 7760
Ponz, F. 1343, 5460, 8573
Ponz, R. 8573
Pooggin, M. M. 1668
Poole, A. P. 4637
Poonam Dhawan 5287, 5597
Poonam Srivastava 1644
Poonam Varshney 625
Popandopulo, M. I. 7551, 8384
Pope, D. D. 302, 1467
Pope, S. J. 8667
Popkova, K. V. 4518, 8362
Poplawsky, A. R. 6063
Popov, C. 3460
Poppe, J. 6603, 6869, 7239, 8027
Popper, L. 2109
Porta, C. 7406
Porta-Puglia, A. 3582, 3885, 5255
Portal, M. 5012
Porter, D. M. 1638, 7030, 8687
Porter, I. J. 2868
Porter, R. 5009
Porto, M. E. 722
Porzel, A. 8422
Posch, J. S. 8337
Poschenrieder, G. 2548, 4107
Poskitt, J. M. 3327
Posler, G. L. 3667
Postma, J. 612, 5580
Postuma, R. 7208
Poswal, M. A. T. 1960
Pot, B. 6412
Poteri, M. 2381
Potes, M. F. 3900
Potter, J. W. 8786
Potter, S. 4757
Potts, W. E. 2875, 4893
Pouleur, S. 6536
Poullis, C. A. 5369
Poulos, B. T. 1940
Poulos, J. M. 5345, 6127
Poulsen, G. B. 5809
Poulter, R. T. M. 7243
Powell, C. A. 4898, 5411
Powell, C. C. 19
Powell, G. 1326, 3937, 5800
Powell, J. M. 2393
Powell, K. 7181
Powell, K. A. 3220, 6606
Powell, M. J. 4053
Powell, W. A. 2291
Powelson, M. L. 2843
Power, A. G. 1958, 7497
Power, J. M. 3130
Powers, H. R. 4836, 7933
Poysa, V. 5336
Pozhar, Z. A. 1114
Pozzebon, E. 6497
Praag, H. van 4964
Prabakar, K. 7546-7547
Prabhu, A. S. 2075, 2080, 4427
Prabhu, K. V. 5145
Prado Vera, I. C. del 5916
Prajapati, K. S. 8699
Prakasam, N. 3909
Prakasam, V. 4505
Prakash, H. S. 2724, 3896, 4706, 7018
Prakash, O. 1610
Prakash, V. 8236
Prakesh, H. S. 6709
Praksasm, V. 8650
Pramotton, R. 1678
Prange, R. K. 5392
Prange, V. J. 4894
Prasad, G. 609
Prasad, G. S. 6508
Prasad, K. V. V. 3052, 5997
Prasad, M. 1003, 5316
Prasad, M. S. 2706
Prasad, R. 7998
Prasad, R. K. 7687
Prasad, R. N. 3658
Prasad, S. C. 4442
Prasad, Y. 7980
Prasanna, T. B. 4481
Prasar, S. 6693
Prashar, M. 256, 262, 2005, 4329
Pratella, G. C. 1039, 2220, 7428
Prates, H. S. 5437
Pratt, R. C. 8346
Pratt, R. G. 348
Preece, P. 8857
Preiszner, J. 1505
Prelc, F. 5529
Prell, H. H. 3749
Prem Narayan. 8682
Premakumari, D. 3961
Pressman, E. 2183
Prestidge, R. A. 5232, 7573
Preston-Meek, C. M. 1882
Pretorius, I. S. 8031
Pretorius-Güth, I. M. 3387
Pretzsch, H. 8766
Prew, R. D. 5849
Price, M. 5504
Price, N. C. 797
Pridvorev, N. I. 4384
Priefer, U. 3387
Priestley, R. A. 823, 5848
Prieto, J. 4741, 4747
Prill-Buchholz, B. 2562
Prillwitz, H. 7854
Primich-Zachwieja, S. 1784
Pring, R. J. 6535
Pringle, K. L. 299, 4383
Prins, M. 4759
Prinsloo, G. C. 2877, 7672
Prinzio, A. P. di 4946
Prior, C. 548, 553, 7000
Prior, P. 2901, 8568
Pritchard, M. K. 410
Procházková, Z. 1755
Procopovici, E. 3460
Proctor, R. H. 102
Proeseler, G. 3224
Proffer, T. J. 773
Prokharchyk, R. A. 5129
Prokinová, E. 2917
Prokkola, S. 411
Prokopy, R. J. 459
Prosser, J. I. 408, 1210, 5016
Prost, M. 7931
Prostakova, Zh. G. 8246
Prot, J. C. 3479
Protsenko, M. A. 4517, 5291
Provvidenti, R. 174, 207, 2913, 5357, 6006
Prudet, S. 6181, 6184
Prunier, J. P. 2239-2240
Prunier, M. 8317
Prusky, D. 3882, 3884, 4658, 5448, 6975
Pruvost, O. 591
Pryor, A. 2536, 6281
Prytz, S. 5358
Psallidas, P. G. 6229
Pscheidt, J. W. 140, 5462
Pshanīchnaya, L. A. 5129
Pu, X. A. 7787
Pu, Z. Q. 355, 8226, 8452
Puchta, H. 3202
Pueppke, S. G. 1736
Pühler, A. 4935
Puigdomènech, P. 6703
Pukhal'skiĭ, V. A. 1028, 1663
Pulatova, A. 3945
Pulford, W. M. 7743
Pululu, G. 4763
Punam Jeswal 5127
Punekar, L. K. 4009
Punithalingam, E. 7163
Punja, Z. K. 6064
Purac, A. 415
Purandare, N. D. 6126
Purcell, A. H. 8235
Purcifull, D. E. 179, 185, 187, 202, 8681
Pureco Muñoz, A. 7661
Pureveen, J. B. M. 5581
Purkayastha, R. P. 654, 6770-6771, 8842-8844
Purss, G. S. 8025
Purwantara, A. 555
Pusey, P. L. 4627
Pushkaran, K. 492
Pussemier, L. 7853
Putnaérglis, È. 6132
Putnam, M. L. 856, 5557
Putter, C. A. J. 1075, 1125
Puttoo, B. L. 3842
Putz, C. 1118
Puurand, Ü. 208
Puzanova, L. A. 462
Pyke, N. B. 7743
Pyndji, M. M. 1492
Qadeer, G. A. 6710
Qasba, G. N. 1901
Qasim, N. A. 3290
Qazi, A. 5650
Qi, P. K. 494
Qian, S. W. 5593
Qian, X. L. 3795
Qian, X. Q. 3095
Qiao, X. Y. 4928-4929, 4931
Qin, B. Y. 3095
Qin, Z. W. 2870, 4476
Qiu, D. W. 319, 911, 2077
Qiu, X. 8316
Qu, S. M. 5056
Quadt, R. 5094, 5175
Quaggio, J. A. 6213
Quagliotti, L. 6855
Qualen, S. K. von 5923
Qualset, C. O. 2660, 5126
Quaroni, S. 15, 6413
Quarta, R. 5400
Que, G. S. 3653
Que, X. F. 1336
Queiroz, O. 4848
Qui, Z. 7941
Quick, G. R. 2460
Quimby, P. C. 1760
Quimby, P. C., Jr. 8860
Quinn, J. P. 7017
Quintero, S. 2820
Quintero-Ramos, M. 4157-4158
Quiot, J. B. 2050
Quiroz, C. 2703
Quisenberry, S. S. 5234
Quiser Ahmad 6796
Quresh, Z. 8675
Quronfilah, N. E. 5354, 5356
Quroshi, S. U. 6998
Raabe, R. D. 1739
Raak, M. van 1052
Raan, I. W. 2255
Rabichuk, A. B. 885
Rabie, C. J. 3424
Rabindran, R. 7977, 8852
Rabitti, T. 6179
Raccah, B. 3439, 5069, 6589
Radcliffe, D. E. 343
Radcliffe, F. 2473
Raddi, P. 3167, 3985
Raddi, S. 1721, 4850
Rademaker, J. L. W. 7191
Radika Devi 2406
Radovanović, T. 2051-2052
Radtke, W. 2167
Radwan, W. 5988
Radziah, N. Z. 1144
Rae, B. 8665

Rafal'skaya, O. M. 2108
Rafin, C. 2880
Ragab, M. M. 3112, 3112
Ragala, P. 3857, 6962
Ragazzi, A. 125, 4841, 7076, 8772
Rage, P. 4471
Raghu, K. 1795
Raghu, S. 5530
Raghuram, M. 3674
Ragozzino, A. 2236, 6852, 7754
Ragsdale, N. N. 7231
Ragupathi, N. 6764
Ragupathy, S. 7299
Rahalison, L. 5698
Rahaman, M. A. 5571
Rahe, J. E. 993, 3423, 3488, 4549, 8103-8104
Raheja, A. K. 2099
Raheja, R. K. 5246
Rahimian, H. 1461, 1737, 6982
Rahman, F. 4454
Rahman, M. A. 5572, 7516
Rahman, M. M. 5971
Rahman, S. 439
Rahman, S. J. 2129, 7621
Rahme, L. G. 662, 5266
Rai, A. 3596
Rai, A. N. 1905
Rai, B. 965, 1905
Rai, B. K. 3596
Rai, M. 5310
Rai, M. K. 5779, 7979
Rai, P. K. 686
Rai, P. V. 1016
Raid, R. N. 421, 4719
Raidl, S. 4970
Raikhel, N. V. 4276
Raina, P. K. 8388
Raio, A. 471
Raizada, R. K. 792, 6002
Raj, L. 6790
Raj, S. 1674, 3119, 7899
Raj, S. K. 1103, 8690
Raj, T. R. N. 4225
Rajak, R. C. 4824
Rajalakshmi, V. K. 5525
Rajamanickam, B. 5279
Rajamanickam, K. 7829
Rajan, F. S. 4884, 6350
Rajanna, K. M. 7152
Rajaram, S. 844, 2673, 4323, 5157, 8270
Rajarathnam, S. 4019
Rajarishi, R. 7927
Rajasekaran, S. 2328
Rajasekhar, E. 957
Rajasekharaiah, S. 2060, 3598, 8351
Rajasekharan, R. 3065
Rajashekara, E. 278
Rajda, V. 4803
Rajendra Singh 1539, 6847, 7964
Rajesh Dwivedi 80, 1816
Rajesh Kumar 8822
Rajnauth, G. 4266
Rajotte, E. G. 4908
Rajpurohit, T. S. 8711
Raju, T. N. 6798, 8463
Rakesh Kumar 6445
Rakesh Shah 7630
Rakotondramanana 1995
Rakotonirainy, H. J. 1995
Rale, V. B. 3023
Ralph, W. 2095
Ram, A. 4751
Ram, B. 3538, 4321
Ram, M. 3658
Ram, M. R. 1925, 7384
Ram, R. L. 4583
Ram, S. 3024-3025
Ram Bahadur 4809
Ram Kishun 1596, 2999
Ram Singh 2182, 3644
Ramabadran, R. 2743
Ramachandran, N. 3173
Ramachandran, R. D. 7524
Ramachandran, T. K. 528
Ramadoss, N. 7825
Ramakrishna, S. V. 7136
Ramakrishnan, G. 7515
Ramaley, A. W. 1177
Ramalho, M. A. P. 1490
Ramalingam, R. S. 2324
Ramallo, N. E. V. de 7157
Ramamurthi Jambunathan 314
Ramamurthy, R. 7890
Raman, N. 4156
Ramanathan, T. 2323
Ramanujam, M. P. 4716
Ramaprasad, G. 5622
Ramarao, P. 7513
Ramasamy, S. 5669
Ramaswamy, G. R. 5024
Ramawat, K. G. 4589
Ramero Cova, S. 6138
Ramesh Bhat 1087
Ramesh Chand 1596, 2999, 4654
Ramgraber, L. 3498
Ramírez, M. C. 6645
Ramírez, M. E. 1001
Ramírez, P. 6337
Ramírez, Y. 7309
Ramírez Arredondo, J. A. 6786
Ramirez Legarreta, M. R. 5641
Ramírez Legarreta, R. 6921
Ramírez S., F. 6976
Ramji Lal 3911-3912
Ramm, K. 3202
Ramm, M. 7690
Ramos, C. S. 5432
Ramos, R. S. 2199
Ramos, V. J. 325
Rampersad, E. M. 4720
Ramsey, M. D. 6103
Ran, Y. 3534
Rana, B. S. 3624
Rana, G. L. 2969, 3770
Rana, G. S. 6205-6206
Rana, H. S. 8621
Rana, R. K. 4320
Rana, T. A. 8697
Rana, Z. A. 8697
Randall, G. L. P. 2474
Randhawa, A. S. 5135, 5857
Randhawa, H. S. 3627, 3799, 4555
Randhawa, M. A. 2629
Randle, J. 8728
Randles, J. W. 1633, 2319, 8451
Randriantsalama, R. A. 1995
Rane, S. D. 2253
Ranganathaiah, K. G. 6706
Ranganathan, T. B. 2737, 7545
Rangasamy, S. R. S. 2324
Rangaswamy, K. T. 2150, 7847
Rani, D. B. R. 1791
Rani, N. 5594
Rani, R. 4121, 4146
Rani Gupta 7345
Ranieri, R. 7437
Ranjan, K. S. 2178, 3755
Ranjan Chattopadhyay 1103
Ranjha, A. Y. 23
Rankin, L. 4606
Ranković, M. 3833, 6140, 6153, 6157, 6163
Ransom, R. F. 3622
Ranta, H. 5533
Ranu Singh 4824
Ranucci, A. 2164
Rao, A. A. 479
Rao, A. G. 4377
Rao, A. K. 2313
Rao, A. N. S. 2916, 7520
Rao, A. S. 5737, 7034, 7832
Rao, B. S. 375
Rao, C. P. 3910
Rao, D. M. 4685
Rao, D. P. 3877
Rao, D. R. 3940
Rao, G. K. 7516
Rao, G. N. 4413
Rao, G. P. 1641, 1643, 1765
Rao, G. S. 479
Rao, J. N. 3703-3704
Rao, K. C. 2816, 3068
Rao, M. M. 3909
Rao, M. V. 1224, 7291
Rao, N. G. 5466, 5571-5572, 7821
Rao, P. V. S. 3906, 3906
Rao, R. C. N. 7828
Rao, R. D. V. J. P. 2714
Rao, V. G. 2996, 3858, 5563, 7365, 7962
Rao, V. K. 8358
Rao, V. S. 7460
Rao, W. W. 3534
Rao, Y. P. 5470, 5477
Raol, B. V. 6258
Rapetti, S. 4852
Rapilly, F. 2617, 4046
Raposo, R. 3717
Rappaport, L. 2183
Rappaport, R. 8020
Raptunovich, E. S. 4832
Rasanayagam, S. 1256
Rashal', I. D. 8328
Rashid, F. 2894
Rashid, K. Y. 1629, 1679, 2111, 6003
Rashid, M. A. 4598
Rashmi Aggarwal 5868
Rashmi Bhatnagar 2005
Rashmi Varma 2370
Raske, A. G. 7082
Raskin, I. 233, 6596
Rasmussen, A. N. 5687, 7235
Rasmussen, F. N. 1276
Rasmussen, H. 1276
Rasmussen, J. B. 3370, 3812
Rasmussen, M. 7323
Rasmussen, O. F. 5, 950
Rasmussen, S. K. 2038
Rasmussen, U. 1538, 7014
Rasmusson, D. C. 3563
Rassadina, G. V. 4520
Rast, A. T. B. 3491
Rastogi, R. 1447
Rataul, H. S. 5246
Rath, G. C. 2918
Rath, M. 542
Rathaiah, Y. 7846
Rathi, Y. P. S. 2139, 5257, 6022, 6026, 8437
Rathke, S. 981
Ratnoo, R. S. 7628
Rattan, G. S. 8303
Rattan, R. S. 2895
Rattink, H. 5580, 6601
Rattunde, H. F. W. 8360
Raudaskoski, M. 1258, 7293
Rauf, C. A. 2807
Raupp, W. J. 860
Raut, B. T. 968
Raut, J. G. 894, 1022
Raut, S. P. 7151
Rava, C. A. 2799
Raveendran, T. S. 1099
Ravelonandro, M. 1056, 3938, 5401, 6589, 8225
Ravendran, T. S. 5473
Ravensberg, W. J. 402
Raventós, D. 5190, 6703
Ravinder, T. 5466, 7821
Ravindra, N. S. 4001, 4869
Ravindran, P. N. 4878
Ravise, A. 3906
Raviv, M. 2197
Rawat, V. P. S. 7926
Ray, J. B. 754, 756
Ray, J. W. 7932
Ray, S. 668
Rayburn, A. L. 7245
Raychaudhuri, S. P. 1354
Raymond, M. 650
Raymond, P. 8099
Raynal, G. 2761, 2771
Razdan, V. K. 3842
Razera, L. F. 8425
Ražukas, A. 2827
Read, A. J. 7799
Read, D. J. 1839, 1867
Read, L. A. 8705
Read, P. J. 400, 2162
Ream, W. 4057, 4916
Reardon, J. C. 8798
Reardon, T. B. 7571
Reavy, B. 1964, 4257, 5085
Rebandel, Z. 7765
Rebeka Desta 2014, 2021
Rebmann, G. 2671
Recas, E. 2967
Rechcigl, J. E. 4989
Reddersen, J. 5851
Reddick, B. B. 5557, 5980
Reddy, A. G. R. 3068
Reddy, A. V. 323
Reddy, B. B. 4402
Reddy, B. V. S. 2069
Reddy, C. D. R. 6254
Reddy, C. S. 4008
Reddy, D. B. 5695
Reddy, D. R. 5480
Reddy, D. R. R. 5381
Reddy, D. V. R. 8203
Reddy, G. M. 4418
Reddy, G. R. 3068, 7136
Reddy, G. S. 4685
Reddy, H. R. 5344, 6885
Reddy, K. R. 7034
Reddy, K. S. 2816, 5480
Reddy, M. B. 5695
Reddy, M. J. 4271, 4280
Reddy, M. M. 4685
Reddy, M. S. 2816, 4549
Reddy, M. V. 378, 961, 2133, 4491-4494, 5274, 6018, 6798, 8463
Reddy, N. P. E. 962
Reddy, O. R. 5585
Reddy, P. S. 5344
Reddy, S. 4854
Reddy, S. M. 5194, 6217
Reddy, T. S. N. 7057
Reddy, V. K. 5194
Reddya, K. R. 7832
Red'ka, A. P. 1563
Red'kina, T. V. 2484
Redl, H. 2991
Redman, R. S. 6533
Reed, G. 6034
Reed, J. P. 4581
Reed, J. T. 3064
Reed, K. F. M. 8410
Reed, P. J. 3920
Reed, S. L. 7383
Reeleder, R. D. 1780
Rees, E. A. 4527
Rees, N. E. 8860
Rees, R. G. 5176
Rees, R. M. 4216
Rees-George, J. 742
Reeves, D. L. 8337
Reeves, J. C. 5, 5196
Reeves, M. 2503
Refatti, E. 1571, 3856, 6956
Regazzi, A. J. 1525
Regenass, M. 1551
Regenmortel, M. H. V. van 170, 808-809, 7402
Regensburg-Tuïnk, A. J. G. 5646
Regis-Role, S. D. 6577
Register, J. C., III 1659, 2559, 7880
Regnault, Y. 4699, 8677
Regner, F. 1327, 1585, 3434, 3836
Rehfuess, K. E. 8751
Rehill, P. S. 3975, 7905
Rei, F. T. 3900
Reichard, D. L. 3283
Reid, C. L. 2933
Reid, C. P. P. 698
Reid, J. 3413, 5046, 7370
Reid, J. B. 491
Reid, L. M. 1422, 2713, 4393, 5187, 5921
Reid, R. 3064
Reif, H. J. 5508, 8734
Reifschneider, F. J. B. 5345
Reilly, A. 5128
Reilly, C. C. 4694
Reilly, P. J. A. 6595
Reimann-Philipp, U. 7058
Reimers, P. J. 5227
Reimmann, C. 5974, 8393
Reinbolt, J. 5088
Reinert, R. 5380

Reinhold, M. 3579, 8325
Reis, E. M. 1990, 5876
Reis, M. R. C. S. 78
Reisenauer, G. 6034
Reisener, H. J. 843, 2654
Reisinger, O. 7429
Rekha Rani 4121
Rekha Rastogi 1447
Remanandan, P. 8463
Rempe, E. Kh. 1826
Ren, L. 1943-1944
Ren, M. 6314
Ren, S. Y. 6087
Ren, Y. Y. 5207
Ren, Z. B. 2252
Renard, J. L. 3058
Renaud, F. 650
Renaudin, J. 5110, 6211
Rendon S., G. 5975
Renelt, A. 7155
Renfro, B. L. 1425
Rennenberg, H. 1163
Rennie, B. D. 2104
Rennie, W. J. 6420
Rensburg, G. D. J. van 299, 4381-4383
Rensburg, J. B. J. van 4381, 5915
Rentzea, C. 8096
Renubala, K. 3193
Renwick, A. 12
Renzaglia, K. S. 1866
Requena, A. M. 23
Resca, R. 3090
Research & Training Newsletter 7823-7824
Resende, M. L. V. de 2320
Resende, R. de O. 1178, 5052
Reséndiz-García, B. 6509
Reshchikov, A. P. 148
Reshetilova, T. A. 4617
Resnizky, D. 3830
Restrepo-Hartwig, M. A. 5093
Rether, B. 7931
Rethinam, P. 1098
Reulet, P. 3760
Reunov, A. V. 1323
Reutenauer, A. 3445
Reuven, M. 7137, 8813
Reuveni, R. 2197, 5920, 7504
Revear, L. G. 5643
Reverchon, S. 661, 3239, 4059
Revue Suisse d'Agriculture 4698
Rey, M. E. C. 4445-4446, 8207
Reyes, A. A. 3758, 4580
Reyes, F. 4206, 4666
Reyes, M. 6188
Reyes-Discua, N. 3620
Reynaud, B. 878, 2050
Reynolds, D. R. 1918
Reynolds, H. V. 1937
Reynolds, K. M. 506
Reynolds, S. L. 8653
Reynolds, T. 6005
Reza-Alemán, F. 3344
Řezáč, A. 4453
Rezaian, M. A. 1070, 2248, 3438
Rezanoor, H. N. 823, 3377
Rezende, J. A. M. 8204
Rghei, N. A. 3359
Rhee, M. D. van de 4756
Rheenen, H. A. van 641
Rheinheimer, D. dos S. 4164
Rhijn, J. A. van 2451
Rhoads, M. L. 1463
Rhoads, R. E. 8220
Rhode, W. 2319
Rhodes, B. B. 5368, 5379, 7713
Rhodes, D. J. 6387
Rhodes, L. H. 7564
Riazuddin, S. 4495
Ribeiro, W. R. C. 123
Ricaud, C. 7632
Ricci, P. 7065
Riccioni, L. 2976, 4645
Rice, R. E. 7753
Rich, J. J. 6787
Richard, C. 6536, 7577
Richard, G. 2054
Richard, J. L. 8354
Richard, R. D. 636
Richards, K. 3445
Richards, K. E. 803, 1346
Richardson, J. 2586
Richardson, K. 1328
Richardson, M. D. 3663, 7567
Richardson, P. E. 3957-3958
Richardson, R. G. 5683
Richter, A. 5019
Richter, B. E. 4081
Richter, D. L. 6474, 7334
Richter, J. 198, 1012
Rickard, D. A. 8076
Rickard, J. E. 8500
Ricker, K. E. 2160, 6049
Ricker, M. D. 6110
Ridder, H. W. 7943
Ridé, M. 3251
Ridé, S. 3251
Rider, D. A. 21
Ridgway, D. 3238
Ridout, C. J. 5004
Ridout, M. S. 2418, 4209
Riechmann, J. L. 4252, 8216
Riede, C. R. 2633
Riedel, R. M. 1513, 4581, 6110
Rieder, P. 6322
Riederer, M. 44
Riemenschneider, D. E. 7917
Ries, S. M. 1553
Rigden, J. E. 3438
Riggenbach, A. 8041
Righetti, T. L. 5396
Rigling, D. 5461
Rihs, G. 4103
Riihinen, A. 7111
Riispere, A. 652
Rij, R. E. 5427
Rijkenberg, F. H. J. 303, 547, 2065
Rijo, L. 7049
Rikkerink, E. H. A. 742, 8154
Riley, I. T. 7574
Riley, T. D. 2270
Rimmer, R. S. 7015
Rimmer, S. R. 410, 6232
Rimóczi, I. 6566
Rimpler, H. 5697
Řimsa, V. 1115
Rincón, E. 4152, 7309
Rinder, W. 3302
Rinehart, K. 4060
Ringli, C. 5974
Rintelen, J. 4375
Rio, B. 1143
Río, L. A. del 4147
Río, L. del 3687
Río, L. E. del 301
Rios, R. 3058
Rios R., R. 3094
Riou, C. 1883, 5760
Rishi, N. 3730, 5287, 5597
Risseeuw, E. P. 977
Ristaino, J. B. 1020, 4533, 5301
Ritchie, J. M. 8862
Ritter, C. 2446, 4230
Ritter, G. 7281
Ritzenthaler, C. 5083
Riva, S. 3248
Rivalta, L. 5400
Rivan, Y. 2860
Rivano, F. 3960
Rivas, F. 8535
Rivera, C. 1977, 6337
Rivera-Bustamante, R. F. 3768, 8575
Rivera-Peña, A. 2156-2157, 6808
Rivero, J. M. del 7800
Rizk, R. A. 2026, 2029, 2041
Rizkallah, L. R. 7139
Rizos, H. 5060
Rizvi, S. J. H. 8040
Rizvi, S. S. A. 7575
Rizvi, V. 8040
Rizwana, R. 2291
Rizwi, M. A. 5629
Rizza, F. 3582
Rizzo, D. M. 3368, 4213, 7086
RLAC-PROVEG 3074
Roach, W. J. 30
Robacker, C. D. 6194
Robb, J. 933
Röbbelen, G. 283
Robbins, C. 4067
Robbins, M. P. 5181, 6630
Robbs, C. F. 6907
Robene-Soustrade, I. 6524
Roberson, R. W. 4187
Robert-Baudouy, J. 660-661, 1212, 3239, 4059, 8032
Roberti, R. 2614, 2649, 2682, 4547, 7456
Roberts, A. L. 1050
Roberts, C. A. 6752
Roberts, D. W. 6332
Roberts, I. M. 1062, 5067, 8228
Roberts, J. J. 4302-4303
Roberts, J. M. F. 8467
Roberts, P. A. 6090, 8741
Roberts, S. J. 8459
Roberts, W. E. 33
Robertson, D. G. 3903
Robertson, K. 6059
Robertson, N. L. 182, 790
Robeson, D. J. 7659
Robin, C. 2382-2383, 2385
Robins, D. J. 8256
Robinson, D. J. 797, 1334, 1941, 1950, 3453, 5070, 8229
Robinson, D. W. 1358
Robinson, R. A. 6390
Robredo, F. 3969, 8757
Robson, A. D. 97, 5718, 5738, 7305, 8142
Robson, G. D. 4205
Rocha de Souza, L. 3058
Rocha-Peña, M. A. 6830
Rochaix, J. D. 2540
Rochester, D. E. 434, 8199
Rochon, D. A. 5811
Rochon, d'A. M. 8232
Rocque, B. de la 3593
Rod, J. 3889
Roder, W. 716
Roderick, H. W. 3568, 4459
Rodionova, N. P. 1344, 5096
Rodrigo, I. 8551
Rodrigues, A. N. A. 4984, 6483
Rodrigues, B. F. 6030
Rodrigues, C. A. 4401
Rodrigues, C. J., Jr. 5491, 7049
Rodrigues, J. D. 2773
Rodrigues, K. F. 774
Rodrigues, S. D. 2773
Rodriguez, A. 2645
Rodriguez, C. M. 2707, 7497
Rodriguez, F. I. 2828
Rodríguez, H. A. 2728, 5204
Rodriguez, J. L. 3103
Rodríguez, J. M. 7698
Rodriguez, M. 3894
Rodríguez, M. C. 2547
Rodriguez, M. J. B. 1633
Rodriguez, R. 2767, 2774
Rodríguez, R. del P. 2205
Rodriguez, R. J. 446, 2542, 6533
Rodríguez, S. M. E. de 1060
Rodríguez Amador, L. 651
Rodríguez C., E. 6674
Rodríguez-Cerezo, E. 8729
Rodríguez de la Rosa, N. 3391
Rodríguez Guzman, M. del P. 5916, 6220
Rodríguez-Herrera, R. 1430, 1435, 1439, 3617, 3619
Rodríguez-Kábana, R. 3903, 4211, 8694
Rodríguez Mejía, M. de L. 6138
Rodriguez-Palenzuela, P. 655, 6193
Rodríguez S., N. 5159
Rodriquez, F. 3105
Roekel, J. S. C. van 4765
Roelfs, A. P. 1764, 1998, 4302-4303
Roelofs, J. G. M. 7113
Roestel, C. van 2695
Roewer, I. A. 1878
Rogalski, L. 1415
Rogava, N. K. 2219
Roger, P. A. 318
Rogers, C. 7263
Rogers, J. D. 2287, 7377
Rogers, S. G. 799
Rogers, S. O. 8161
Rogerson, C. T. 7361
Roggemans, J. 7971
Roggero, P. 942, 2144, 8202
Rogmann-Backwinkel, P. 8152
Rogov, V. V. 419, 3088
Rogozhin, A. N. 1453
Rogozhina, E. A. 241, 3559
Rohe, M. 7283
Rohloff, H. 6263
Röhring, C. 5271
Rohringer, R. 846
Roistacher, C. N. 1078
Roitman, J. N. 2222
Roĭts, M. 8349
Rojas, A. 4739
Rojas, C. 3106
Rojas, M. R. 3769, 5806, 5810
Rojas M., R. I. 6540
Rokni, S. 484
Roland, L. 6454
Roldan, A. 1851, 5720, 6484
Roldan, I. 4949
Rolim, P. R. R. 325, 579, 2798
Rolin, D. B. 3342
Roll-Hansen, F. 3152
Roll-Hansen, H. 3152
Rollinger, J. L. 7107
Rollins, J. A. 8428
Rom, M. 5322
Roma, E. V. 1519
Romaine, C. P. 7162
Romankow-Żmudowska, A. 220
Romao, J. 333
Rombel, I. T. 6406
Romdhani, M. S. 7652
Romeiro, R. S. 2799, 6221
Romero, D. 4738
Romero, E. 4947
Romero, J. 1343, 2618, 2790, 4490, 6007, 8573
Romero Cova, S. 6894, 6908-6909, 7100
Römheld, V. 1271
Romiti, C. 3145, 3978, 3981
Romito, A. 2994
Romo Lozano, Y. 7100
Ron, A. M. de 8863
Ronco, L. 6111, 6224
Rondón, G. 4741
Rondón G., A. 3490
Rood, T. 4377
Roopali Singh 3173, 8831
Roos, A. H. 2451
Roos, I. M. M. 6938
Rosales, A. M. 3651
Rosas Romero, M. 5852, 6636
Rosati, P. 6172
Rosato, Y. B. 4065
Roşca, I. 3460
Rosciglione, B. 6156
Rose, D. R. 5552
Rose, J. L. 2101
Rosen, J. D. 4087
Rosenberger, D. 8622
Rosenberger, D. A. 3819, 3826, 6145
Rosendahl, C. N. 450
Rosendahl, S. 450
Rosenow, D. T. 305, 1442, 3615-3616, 4403
Roses-Codinachs, M. 3358
Rosner, A. 2412, 5069
Ross, E. W. 4838
Ross, G. J. S. 2702
Ross, I. K. 7392
Rossall, S. 3253, 7606, 8550
Rossel, H. W. 415, 633, 2587, 4500-4501, 8180, 8345
Rossen, L. 7323
Rosset, P. L. 1043
Rosset, P. M. 1775
Rossetti, V. 6213
Rossetto, C. J. 8425
Rossi, K. H. 743
Rossi, M. P. 3888

Rossi, R. 6139
Rossi, V. 2335, 3922-3924
Rossier, C. 6442
Rossignol, L. 1690, 5295
Rossmann, M. G. 1333
Rosso, F. 536, 2335, 3922-3924, 8702
Rosso, P. H. 4998, 6326
Rosso, P. H. A. 6325
Roth, C. 4696
Roth, D. A. 1969
Roth, V. 8072
Rothrock, C. S. 2354, 7074
Rotondi, A. 6139
Rottinghaus, G. E. 8405
Rouchaud, J. 8561
Roudet, J. 6181
Roumen, E. C. 2744, 5216, 5218, 7542
Rousseau, J. V. D. 698
Rousset, M. 7466
Rout, B. K. 2918
Roux, J. 7132
Rouxel, F. 3388, 3692, 4047
Rovira, A. D. 6665
Rowan, D. D. 8407
Rowe, D. E. 8415
Rowe, R. C. 1513
Rowell, D. 2400
Rowhani, A. 484, 1343, 3452
Rowinski, R. 8064
Rowland, C. Y. 6537
Roy, A. 7358
Roy, A. K. 1744
Roy, K. L. 5073
Roy, N. K. 2466, 7241
Roy, P. S. 6130
Roy, S. D. 1080, 1602
Royer, M. H. 4049
Royle, D. J. 7922
Royo, C. 4361
Rozanov, M. N. 5051
Rozanov, V. V. 392
Rozes, N. 81
Rozhkovan, V. V. 8427
Rozman, D. 1286
Rozsnyai, Z. 2977
Rozsnyay, Z. D. 2230, 2241, 2971
Różycki, H. 5015
Ruab Ali 2467
Ruan, Y. L. 787, 8335
Ruban, N. M. 1216
Rubiales, D. 863, 1984, 3503, 3543, 6645
Rubies-Autonell, C. 2620
Rubino, L. 1666, 4241
Rubio H., R. 4988
Ruch, M. C. 5967
Ruckenbauer, P. 6673
Rucker, D. G. 3436
Ruckstuhl, M. 1044
Rud', E. A. 8723
Rudawaska, M. 2498
Ruddat, M. 5021
Ruddock, A. 3891, 3893, 8673
Rude, S. 5686
Rüdel, M. 788
Rudolph, K. 153, 457, 1786, 2167
Rudolph, R. D. 8695
Rueda Salguero, J. A. O. de 2501
Rüegg, J. 2975, 8606
Rufelt, S. 4101
Ruffray, P. de 8030
Rufty, R. C. 7884, 8717
Rugg, C. A. 5575, 8820
Ruggini, L. 6857
Rugină, M. 3460
Rugmini, P. 7910
Rühl, E. H. 6176
Rühl, K. 2972
Ruissen, M. A. 621
Ruiter, R. K. 2348
Ruiz, H. 2909
Ruiz, R. A. R. 3886
Ruíz Giraldo, H. 2205
Ruiz-Herrera, J. 7312
Ruiz-Medrano, R. 3768
Ruiz-Tapiador, M. 4354
Ruíz Urrestarazu, M. M. 596
Rumeau, D. 1517, 5465
Runion, G. B. 4839, 8796
Rüntz, I. 4519
Rup Lal 647
Ruppel, E. G. 3921
Rüpping, E. 871, 4369
Ruscoe, A. 3064
Rush, M. C. 4436, 5951-5952, 7535, 8604
Russ, K. 3813
Russell, A. C. 7618
Russell, B. W. 3537
Russell, C. C. 1101
Russell, D. M. 6942
Russell, D. R. 5810
Russell, M. H. 1804
Russell, P. E. 7443, 8082, 8097, 8261
Russo, M. 485, 1666, 4241
Russo, R. O. 2506
Russo, V. M. 1873, 5306
Ruter, J. M. 3179, 5556, 8635
Rutherford, M. A. 4777
Rutskaya, S. I. 535
Rutz, D. A. 54
Ruža, R. 1709
Ryabchenko, N. A. 8276
Ryabov, E. V. 5081
Ryals, J. 1026, 2345, 2350, 3100, 4757, 7418, 8247
Ryals, J. A. 2606, 3932
Ryan, M. D. 1934
Rybak, V. A. 535
Rybczynski, H. 1237
Rybicki, E. P. 204, 927, 4245, 8212
Ryder, M. H. 6665, 8583
Ryley, M. J. 2101
Ryšánek, P. 1115, 2333
Rysbaev, A. A. 1137
Ryser, J. P. 2981
Rytter, J. L. 6924-6925
Ryu, G. H. 901
Ryu, J. C. 3246-3247
Ryu, O. H. 8476
Ryvarden, L. 2379
Rzaeva, S. I. 448
Rzeszutek, I. 3713
Saager, W. 8750
Saakyan, A. D. 2826
Saarilahti, H. T. 658
Saarma, M. 208
Sabalpara, A. N. 8699
Sabelis, M. W. 5332, 5663
Sabia, C. 2294
Saccardi, A. 3848
Saccardo, F. 6881
Sacchetti, D. 1571
Sacchi, C. F. 3668
Sacco, F. 2655
Sachan, P. L. 2753
Sachay, D. J. 4181
Sachel PV Info 5626
Sacks, W. R. 7155
Sackston, W. E. 522, 524
Sadamatsu, M. 1594, 1597
Sadik, E. A. 5614
Sadovskiĭ, Yu. P. 2970
Sadowski, C. 8531-8532
Sadygova, M. K. 261
Sadykov, S. S. 3951, 6279
Saeed, E. M. 7132
Saeed, F. A. 2305, 5841
Sáenz, M. V. 3793-3794
Saettler, A. W. 369
Sáez-Vásquez, J. 7636
Safarova, G. I. 3881
Safeed, E. 4471
Saffery, R. 6404
Safi, J. M. 8117
Safir, G. R. 2514, 8145, 8537
Saggin, O. J., Jr. 2526
Saghai Maroof, M. A. 287
Sági, F. 854
Sagliocco, J. L. 2421
Sagun, S. B. 7524
Sah, D. N. 4440
Sah, J. P. 5976
Saha, N. K. 8605
Sahab, A. F. 6639, 6699
Sahai, A. S. 6510
Sahi, H. P. S. 2753
Sahi, S. T. 3115
Sahib, K. H. 4402
Sahoo, B. K. 5277-5278
Sahota, T. S. 6050
Sahu, K. C. 5476
Sahu, P. N. 5277
Sahu, R. K. 2298, 6746
Saidi 6266
Saif Khalid 8477
Saifulla, M. 4415, 6706, 6720, 6733
Saikia, A. K. 5384
Saikia, P. 2746
Saikia, U. N. 3400, 7954
Saillard, C. 2595, 5112
Saini, L. C. 4508
Saini, M. L. 5282
Saini, R. C. 5141
Saini, R. G. 2657, 4322, 5860, 6744
Saini, R. S. 4328, 5228
Saint, J. P. le 6085
St. Amand, P. C. 2206
St. Hill, A. 4266
St. Pierre, C. A. 2634, 4296
St. Pierre, R. G. 3000
Saito, K. 3054
Saito, M. 8168
Saito, M. L. 5260
Saito, N. 3838, 4006
Saito, T. 3004, 6730
Saito, Y. 2186, 5398
Saitoh, F. 4194
Sáiz, M. 2790, 4490, 6007
Sajan, R. J. 1681
Saka, H. 2078
Saka, V. W. 5470
Sakač, Z. 2302
Sakaguchi, N. 1605, 6987
Sakaguchi, S. 1536, 1544, 1555, 6803
Sakai, F. 8033
Sakai, R. 7860
Sakai, Y. 2751, 7670-7671
Sakaki, T. 6447, 7860
Sakamura, S. 7860
Sakanishi, M. 8438
Sakasita, J. 5566
Sakata, S. 3312
Sakata, Y. 8542
Sakhuja, S. 5696
Sakin, Ş. 6108
Sako, N. 173, 7129, 7407, 8809, 8833
Sakuma, H. 6723, 6730
Sakurai, A. 2751
Salamini, F. 2834
Salawu, E. O. 5482
Salazar, L. F. 6804
Salazar, P. 4379
Salazar García, S. 7011
Salazar Huerta, F. J. 5869, 6781, 7037
Salcedo, G. 1001
Salch, Y. P. 8153
Saldívar-García, P. 5555
Sale, M. 3297, 6531
Saleem, A. 3083
Salehi, M. 1104
Salem, D. E. 8432
Salentijn, E. 669
Salesses, G. 6224
Salgado, C. L. 3601
Salgado, M. O. 6777
Salibe, A. A. 5437
Salikhbaeva, M. T. 3945
Salin, S. S. 1926
Salinas, J. 6343
Sallai, P. 2950
Salleh, A. M. 5669
Salleras, J. M. 5380
Sällvik, G. 3589
Salm, S. N. 4445-4446
Salmeron, J. M. 7692
Salomon, R. 199
Saloni Sakhuja 5696
Salontai, A. 8832
Salsac, L. 1845
Salti, S. 7678
Salvi, G. 5019, 5258
Salvò, R. 2990
Samad, N. A. 3416
Samaddar, K. R. 969, 998
Samajpati, N. 1111
Samaniego, J. A. 6541
Sambandan, K. 4156
Samersova, V. A. 3673
Samiyappan, R. 7622
Samokhvalov, A. N. 1008
Samoucha, Y. 3716
Sampang, R. C. 7849
Samperi, R. 5681
Sampson, A. J. 8098
Samson, R. 3761
Samsonaŭ, U. P. 5183
Samsudeen, K. 4878
Samuels, A. L. 2915
Samuels, G. J. 774
San Francisco, M. J. D. 7194
San Lio, G. M. di 6227
San Segundo, B. 5190, 6703
Sanabria de Albarracín, N. 2607, 5999
Sances, F. V. 2896
Sánchez, A. 2795
Sanchez, B. 5380
Sánchez, E. E. 5396
Sánchez, F. 1343
Sánchez, J. 4270
Sanchez, L. M. 4285
Sánchez, M. 6251
Sánchez E., M. del C. 5975
Sánchez Erazo, F. 4873
Sánchez-Rasero, F. 4947
Sancho, J. V. 8070
Sandberg, G. 8735
Sandeep Kansal 8510
Sander, E. 7053
Sanders, I. R. 8143-8144
Sanders, P. L. 67
Sanders, P. R. 1659
Sandhu, K. S. 3787, 4593, 8512
Sandlan, K. P. 8490
Sandlin, C. M. 608, 7947
Sandru, I. 3460
Sands, D. 649
Sands, D. C. 872, 1412, 8325
Sandström, M. 8482
Sanfaçon, H. 1945, 5811
Sanford, J. C. 3034
Sangare, A. 3062
Sangeetha Panicker 7343
Sänger, H. L. 3202
Sanguinetti, M. 71
Sanhueza, R. M. V. 3823
Sanier, C. 3960
Sanina, A. A. 6659
Sanjiv Gupta 5151
Sankaran, K. V. 4796
Sano, S. 3295, 6446
Sano, T. 2575, 6811, 8540
Sanogo, S. 5372
Sansford, C. E. 2297
Sansiviero, F. 2994
Sant Ram 3024-3025
Santa, A. 5566
Santagada, A. 4795
Santana, A. I. 5698
Santana, C. J. L. de 2320
Santana, E. A. 8450
Santana, T. 2847
Santen, G. van 2952
Santorelli, S. 5255
Santos, A. A. 5451
Santos, G. L. 7813
Santos, H. P. dos 5846
Santos, J. R. A. 2872
Santos, L. T. P. 5045
Santos, R. 7006, 7010
Santos, R. de F. A. dos 8578
Santoso, E. 4961-4962
Santucci, A. 3855
Sañudo S., B. 2786, 4638
Sañudo Sotelo, B. 4873
Sanyal, A. K. 689
Sanz, A. I. 7698
São Paulo Phytopathology Group 1196
Sapkal, K. N. 567

Sapkal, R. T. 3524-3525, 4316-4317
Sapozhnikov, A. 3154
Săpunaru, T. 1976, 3460
Saracchi, M. 15, 6413
Saraswathi, P. 7863
Saravay, M. 7090
Sarbajna 759
Sarbajna, K. K. 750-751
Sarbhoy, A. K. 3402-3403
Sardi, P. 15, 6413
Sareen, P. K. 2462
Šarić, A. 6027
Sarindu, N. 5836
Sarjan Bhagat 2399
Sarkar, M. K. 917, 5965
Sarkar, N. 8463
Sarkar, S. 1661
Sarker, S. 4405
Sarma, B. K. 4713, 7503
Sarma, C. R. 5539
Sarma, Y. R. 4013
Sarmento Gadelha, R. S. de 3027
Sarniguet, A. 3388
Sarrafi, A. 6684
Sartorato, A. 2799, 6741
Sartori, M. R. 6697
Sasai, K. 7296
Sasaki, A. 7793
Sasaki, K. 3165, 5315
Sasaki, N. 6447
Sasaki, S. I. 1245
Sasikumaran, S. 7150
Sass, O. 2787
Sassa, T. 3883
Sastry, K. S. 5466, 7821
Sastry, M. V. S. 5939
Satake, M. 7148
Satapathy, M. K. 8365
Šatarić, I. 5910, 5914
Sathiarajan, P. K. 7024
Sati, M. C. 999, 1558, 3783, 7702
Satish Chandra 4713
Satish Lodha 748
Satish Mehta 8469
Sato, A. 8258
Sato, M. 8033
Sato, N. 624, 8488
Sato, T. 5160-5161, 6091
Satou, M. 5210
Satpute, G. N. 3111
Sattar, A. Z. 1183
Sattur, A. P. 3021
Satwinder Kaur 8301
Sat'ya Prasad, M. 2706
Satyanarayana, K. 7550
Satyaprasad, K. 7513
Sauer, D. B. 7445
Sauer, H. 2957
Sauer, K. M. 3999
Sauerborn, J. 4030, 8851
Saul Reïes 5155
Saunal, H. 7402
Saunders, D. W. 8309
Saunders, K. 795
Saur, R. 8308
Saurer, W. 8315
Sauter, H. 8096
Sauvage, K. 1179
Sauve, R. 6000
Savard, T. 1522
Savary, B. J. 5980
Savary, S. 3906, 5791, 5948
Savić, D. 2906, 8574
Saville, D. J. 7747
Savino, E. 3639
Savino, V. 1067, 2237, 2580, 6244, 7012, 7778, 8631
Sawada, H. 7186-7188, 7786, 8029, 8636
Sawamura, K. 7730
Sawazaki, E. 6698
Sawhney, R. N. 2658, 4319
Sawhney, V. K. 6231
Sawicka, B. 4522
Sawyer, L. 797
Saxena, D. B. 6463
Saxena, D. R. 2134
Saxena, M. C. 641, 2508, 4030
Saxena, R. C. 5969
Saxena, R. K. 6578, 7345
Saxena, S. C. 5933
Saxena, S. K. 1550, 1753
Saxena, V. C. 1539, 6847, 7964
Say, M. M. 6358
Sayama, H. 6091
Sayer, S. T. 3499
Sbaghi, M. 6186
Sbrana, C. 1270
Scala, A. 2411
Scalcione, M. 4532
Scales, P. F. 2492-2493
Scandalios, J. G. 5191
Scannerini, S. 4169
Schaaf, D. A. van der 402
Schadauer, K. 8764
Schaetzen, N. de 2942, 6917
Schäfer, W. 5761
Schaff, D. A. 214
Schaffner, D. 3581
Schalkwyk, D. J. van 280, 1404
Schandelmaier, A. 5697
Schardl, C. L. 7166, 7572, 7609, 8411
Scharen, A. L. 2015, 3579
Scharf, J. 4940
Schauwecker, F. 108, 884
Schauz, K. 1242, 8093
Scheel, D. 216, 7155
Scheelje, F. 6188
Scheepens, P. C. 5618
Scheer, H. A. T. van der 2943
Scheffer, R. J. 227
Scheibel, C. 4030
Scheidegger, C. 5705
Schelberger, K. 8096, 8308
Schell, J. 1131, 3562, 5824, 8028
Schell, M. A. 5654
Schell, V. 509
Schellenbaum, S. 4169
Schenck, F. J. 7246
Schenck, N. C. 1956
Schenk, G. 5054
Schenone, G. 5834
Schepen, A. van 4759
Schepens, P. J. C. 7656
Scher, F. M. 7178
Scheromm, P. 1845
Schertz, K. F. 1432
Scheuermann, G. 3046
Scheunert, I. 7221
Schiaparellia, A. 1573
Schieffer, J. T. 4626
Schier, G. A. 604
Schietinger, R. 4545
Schiewe, A. 1047, 1970
Schilling, S. L. 594
Schilperoort, R. A. 7189
Schiltz, P. 1670
Schindler, I. M. 4247
Schinke, C. 2628
Schippers, B. 669, 7138
Schisler, D. A. 1763, 6357, 6575, 8583, 8847
Schlaepfer, R. 1692
Schlagnhaufer, B. 7162
Schläppi, M. 2048
Schleifer, K. H. 1781
Schlesinger, R. 108
Schlichter, U. 3562
Schlösser, E. 2681, 2704, 6189, 6690, 6964, 7180, 7252, 7391, 7854
Schlösser, U. G. 8253
Schloz, K. 7223
Schmauder, H. P. 1789, 7690
Schmechel, D. 4196
Schmelzer, E. 5508, 8734
Schmid, A. 2249, 4641
Schmid-Haas, P. 1693
Schmidt, D. 2090, 3660
Schmidt, H. E. 935, 937, 2100
Schmidt, R. A. 7116
Schmiedeknecht, G. 401
Schmiediche, P. 6828
Schmitt, A. 3489
Schmitt, C. 803
Schmitt, R. D. 48, 1797
Schmitthenner, A. F. 5240, 5253, 5989, 6515-6516, 7322, 7593
Schmitz, O. 2513
Schmuck, R. 8109
Schmülling, T. 8735
Schneegurt, M. A. 1238
Schneider, A. T. 4528
Schneider, B. 1068, 2595, 3458, 5706
Schneider, E. F. 373, 4951
Schneider, G. 5026
Schneider, H. 7432
Schneider, J. 3735
Schneider, J. H. M. 620
Schneider, K. E. 4611
Schneider, P. 3161, 7221
Schneider, R. W. 1907, 2899, 5952
Schneider, S. M. 2346
Schnider, U. 666
Schnippenkoetter, W. H. 3354
Schnitzler, J. P. 2168
Schoedel, C. 4921
Schoen, D. J. 2103
Schofield, P. E. 430
Scholes, V. E. 3957-3958
Scholler, M. 6555-6556, 7426
Scholthof, H. B. 4259, 5102, 6587, 8195, 8222
Scholthof, K. B. G. 8195
Scholz, K. 7226
Scholze, P. 8341
Schönbeck, F. 228, 866, 4371, 5727-5728
Schönhar, S. 3125, 7945, 8800
Schönherr, J. 44, 1800, 5888
Schopke, C. 8499
Schor, D. M. 47
Schots, A. 6343
Schottel, J. L. 5658, 7654
Schottová, I. 6901
Schoumacher, F. 5501
Schramm, H. 2296
Schrattenholz, A. 7344
Schreiber, L. 44, 5888
Schreier, P. H. 5508, 8734
Schreiner, I. H. 1609
Schrempf, H. 3735
Schröder, G. 7827
Schröder, H. 670
Schröder, J. 7827
Schröder, M. 6816
Schröder, W. 8750
Schroeer, B. 108, 884
Schroll, R. 7221
Schroth, M. N. 14, 1213, 1788
Schruft, G. 6961
Schubert, A. 1859
Schubert, J. 974, 2887
Schubert, T. S. 773, 3209, 4278, 7382
Schuchmann, R. 2821
Schüepp, H. 141, 2928, 6485, 7300
Schuerger, A. C. 2146, 6398, 7626
Schuh, W. 3678
Schuiling, M. 3059-3061, 3063
Schuld, B. A. 1524
Schulenburg, H. von der 3200
Schüller, C. 7488
Schüller, C. M. E. 4364
Schullerer, S. 2470
Schulte, R. 1011
Schulten, H. R. 1718
Schultz, T. R. 8401
Schulz, F. A. 4311
Schulz, H. 5550, 5685, 7236, 7446, 7861
Schulz, R. R. 740, 1090, 6236
Schulz, U. 8610
Schulze, G. 1237
Schumann, K. 880
Schuster, G. 5503, 6807
Schutte, A. L. 126
Schutte, G. C. 3028
Schutter, A. A. J. M. de 973
Schwab, A. P. 5717
Schwab, S. 7122
Schwadorf, K. 4348
Schwager, L. 6609
Schwandt, J. W. 8756
Schwartz, A. 82
Schwartz, H. F. 6777
Schwartz, P. H. 7231
Schwartz, T. 1053
Schwartzenberg, K. von 3160
Schwarz, M. R. 1971
Schwarz, U. 1158
Schwarzbauer, P. 8765
Schwärzel, R. 6826
Schwegler-Berry, D. 7675
Scibilia, K. L. 8664
Scofield, S. 8541
Scortichini, M. 2923-2924, 3039, 3486, 3841, 3888, 5405
Scott, D. B. 1987, 2756, 7479
Scott, E. S. 1086
Scott, G. E. 889
Scott, H. A. 332, 6129
Scott, K. J. 2034, 3580
Scott, M. P. 2281
Scott, N. S. 3861
Scott, N. W. 7906
Scott, P. H. 7763
Scott, P. R. 2, 1772, 5634
Scott, R. 4277
Scott, S. J. 2187
Scoyoc, S. W. van 7508
Scroggins, C. D. 25
Sdobnikova, O. V. 2524
Sdoodee, R. 3449
Seal, S. E. 7197
Seaman, W. L. 5904
Šebesta, J. 3550-3551
Secher, B. J. M. 239, 5792, 5844-5845, 5865, 7435, 7448, 7475
Secor, G. A. 3684
Seddon, B. 6079
Sedha, R. K. 5772
Sedov, E. N. 8608
Sedra, M. H. 5453
Seebach, M. 1171
Seebeck, J. H. 1843
Seem, R. 2913
Seemüller, E. 213, 1055, 2595, 2978, 3458, 3818, 4218, 6930, 7762
Segarra i Bofarull, J. 4327
Séguin-Swartz, G. 7324
Segundo, B. San 5190
Segura, A. 3493
Sehgal, O. P. 633, 2587, 4261, 4474
Sehrawat, K. D. 4320
Seiber, J. N. 35, 682
Seidel, P. 6686
Seidler, R. 5644
Seif, A. A. 4660
Seifers, D. L. 5977
Seifert, K. 8422
Seigle-Murandi, F. 6719
Seigler, D. S. 2331
Seikhon, G. K. 4150
Seitz, H. U. 2168
Sekar, V. 6583
Sekerková, M. 836
Sekita, S. 7148
Sekiya, M. E. 796, 1658
Sekiyama, K. 5576-5578, 8599
Sekizawa, J. 3265-3266
Sekizawa, Y. 2078
Sekun, N. P. 3530
Sela-Buurlage, M. B. 4765, 5509
Selala, M. I. 7656
Selassie, K. G. 6861
Seletskaya, L. D. 7879
Selig, G. 30
Selimov, F. A. 3514
Selincourt, K. de 7993
Sellam, M. A. 2327
Selochnik, N. N. 7091
Selvaraj, C. 4414
Semal, J. 4198, 6783
Seman, I. A. 1096, 2317
Semancik, J. S. 2262
Semb, L. 2953
Sembdner, G. 5026
Semeniuk, G. 2764

Semple, R. L. 4900
Sen, B. 3807, 3809
Sen, S. 8638
Senapoty, D. 8387
Seneewong, A. 1672
Seng, J. M. 3760
Şengonca, Ç. 5111
Sengupta, K. 4640
Senick, R. I. 3492
Senior, E. 3328, 4133
Senn-Irlet, B. 8133
Seo, J. H. 8740
Seo, J. P. 4537
Seo, W. W. 3247
Seo, Y. W. 3246
Sepúlveda R., P. 2115
Sequeira, J. C. 1071, 5053
Sequeira, L. 663, 665, 4776, 4930
Sequeira, O. A. de 1071
Serezhkina, G. V. 5178, 8328
Serfontein, S. 7649
Sergeeva, V. N. 985
Serghini, M. A. 801, 5083
Serizawa, H. 3265
Serna, F. 4743
Serpeille, A. 2771
Serra, J. 2234, 4361
Serra, M. T. 7698
Serra, S. 6180
Serrano, J. F. 3900
Serrone, P. del 6362
Şesan, T. 226, 1355, 2169, 2608, 3171
Sesay, A. 529
Šešelj, T. 6916
Seshadri, V. S. 5213, 6733
Seshamma, T. 5695
Seshu, D. V. 4420, 5969
Sesto, F. 6210
Seth, P. K. 8838
Sethi, S. C. 2133
Sethi, S. K. 4321
Sethunathan, N. 1795
Sethuraj, M. R. 3961
Settimi, L. 1247
Seurinck, J. 8219
Sevgican, A. 4567
Sewell, G. W. F. 1050
Seymour, M. D. 3726
Seynnaeve, M. 2121
Sezaki, S. 7775
Sfakiotakis, E. M. 6195
Sfarra, A. 1239
Sgorbati, S. 1279
Shaarawy, M. A. 1989, 5137
Shabana, Y. M. 5614
Shabeer Ahmad 8494-8495
Shabi, E. 7783
Shackelford, D. D. 109, 8156
Shadeque, A. 5384
Shadmanov, R. K. 3952
Shadwick, D. S. 2395-2396
Shafii, B. 5912
Shafik, I. 2010, 2652
Shah, A. M. 1493, 1901
Shah, D. 6658
Shah, N. H. 4503
Shah, R. 7630
Shah, S. H. 8845
Shahzad, S. 5789
Shaidarova, L. G. 5691
Shain, L. 5537, 7013, 8664, 8774
Shakirova, F. M. 249, 3514
Shakulova, É. R. 3101
Shakunthala, S. V. A. 3078
Shaly, A. 3857, 6962
Shambulingappa, K. G. 2150
Shamoun, S. F. 6296
Shan, Z. H. 5249
Shaner, G. 2015
Shang, H. S. 858, 4331, 7568, 8298
Shang, Y. F. 3679
Shankara Bhat, S. 4770
Shanker, V. 609
Shanks, M. 5062, 5071
Shanxi Guoshu 8641
Shao, B. F. 815
Shao, Q. M. 2086
Shapina, L. Ya. 8361
Shapira, R. 1621, 8665
Shapiro, B. 3015, 4676
Shapiro, J. P. 7425
Shapiro, Ya. S. 7078
Sharada, K. 114
Sharada, S. 6743
Sharafeh, M. 6801
Sharifnabi, B. 6652
Sharkey, K. C. 3932
Sharma, A. K. 1349-1350, 4681, 4688, 4997, 8236, 8454, 8557
Sharma, B. C. 6492
Sharma, B. D. 917, 5965
Sharma, B. K. 1017, 2753, 7619
Sharma, B. M. 748, 8159
Sharma, C. P. 3005
Sharma, D. D. 4640, 6953
Sharma, D. K. 6432
Sharma, D. N. 2658
Sharma, G. D. 1274, 4981
Sharma, H. C. 1224
Sharma, H. L. 3799
Sharma, I. 2009, 2663, 4334, 8300
Sharma, I. D. 6919
Sharma, I. M. 3022, 4670, 5447, 6214, 7316, 7809
Sharma, J. 3809, 5696
Sharma, J. B. 2658
Sharma, J. K. 1146, 3135, 3966, 4797, 7910
Sharma, J. N. 3859
Sharma, J. R. 4098, 4779
Sharma, K. K. 4335, 5389
Sharma, N. 1244, 2962, 3694
Sharma, N. D. 7369
Sharma, O. P. 2099, 3642, 6710
Sharma, P. 2461
Sharma, P. K. 5732
Sharma, P. N. 4566
Sharma, R. C. 3392, 5778, 7356, 7495
Sharma, R. L. 4619, 5413, 7826
Sharma, R. N. 6796
Sharma, S. 5399, 8469
Sharma, S. B. 3627
Sharma, S. C. 4328, 4338, 5153-5154, 5228, 7819
Sharma, S. K. 3527, 3971, 5857, 8609
Sharma, S. M. 1106
Sharma, S. R. 7588
Sharma, T. R. 5152, 7469
Sharma, V. C. 6822
Sharma, V. P. 5603
Sharma, Y. R. 2142
Sharmita Gupta 3878
Sharon, A. 7994, 8732
Shashi Chauhan 6546
Shashirekha, M. N. 4019
Shaul, O. 6329
Shaw, D. E. 8819
Shaw, J. G. 1660, 8729
Shaw, M. E. 5323
Shaw, M. W. 3287
Shaw, P. W. 1818-1819, 7735
Shayakhmetov, L. F. 2019
Shcherbakova, Yu. B. 1509
Shearer, B. L. 7908
Sheets, O. 532
Shehadeh, A. 2772
Shehata, S. A. 6892-6893
Sheila, V. K. 961, 8463
Shekhawat, G. S. 3734
Shekhawat, K. S. 5273, 5374-5375
Shelburne, V. B. 8798
Shelby, R. A. 929
Shelp, B. J. 3757
Shemyakina, V. P. 1511-1512, 2158, 2840
Shen, C. D. 4141
Shen, C. Y. 3890, 5715, 6477
Shen, F. J. 1542
Shen, J. R. 5925
Shen, J. Y. 1533, 8834
Shen, K. Q. 3521, 4314
Shen, W. C. 8502
Shen, W. H. 2574
Shen, W. Z. 6235
Shen, X. C. 2013, 4599
Shen, X. P. 8503
Shen, X. R. 8834
Shen, Y. 319, 911, 2077, 5972, 7540, 8380
Shen, Y. S. 1974
Shen, Z. T. 4408, 4421
Shendrik, R. Ya. 1114
Sheng, B. Q. 3541
Sheng, F. J. 1549
Sheng, J. S. 2120
Sheng, S. S. 4166
Sheng, Y. F. 5174
Shennan, C. 6104, 7682
Shenoi, M. M. 3941
Sheo Raj 1674, 3119, 7899
Shephard, M. C. 6640
Shepherd, K. W. 3120
Shepherd, R. J. 4259, 5102, 5802, 8222
Sheppard, A. N. 5035
Sheppard, A. W. 2421
Sher Hassan 8477
Sher Singh 2664, 2666, 5966
Sherald, J. L. 4815
Sherf, B. A. 812
Sheridan, H. 1885
Sherif, S. 1989, 2010, 2029, 2041, 5137, 5139
Sherif, S. M. 7244
Sherma, J. 676, 4071, 7205
Sherman, W. B. 468
Sherwood, J. E. 864
Sherwood, J. L. 833, 2853, 5813, 7449
Sherwood, R. T. 2757
Shestopal, Z. A. 475
Shetty, H. S. 1500, 1614, 2724, 2818, 3896, 4271, 4280, 4706, 5200, 6712, 6736, 6743, 7018, 7511, 7521, 7536
Shetty, K. G. 897
Shetty, K. K. 3736
Shetty, S. A. 6709, 6712, 6736, 6743
Shevardnadze, L. M. 2219
Shevchenko, S. I. 2970
Shi, A. B. 320
Shi, A. N. 3653
Shi, G. A. 2638
Shi, G. C. 4790
Shi, J. 6760
Shi, J. R. 8091, 8321
Shi, J. X. 5442, 7795
Shi, L. 3114
Shi, M. T. 8698
Shi, Y. M. 8684
Shi, Z. X. 8196
Shibata, N. 3291
Shibata, S. 5303
Shibuya, S. 6417
Shiek, M. 7580
Shifriss, C. 2908
Shigematsu, T. 8087
Shigenaga, S. 2731, 5947
Shikata, E. 1339, 2589, 2729, 5100, 6811, 8227
Shildrick, J. P. 61
Shim, H. K. 5252
Shim, J. O. 5032, 5592, 7976
Shimada, K. 6737
Shimamoto, K. 3633
Shimazaki, Y. 5319, 5561
Shimizu, T. 5325
Shimoda, S. 3801
Shimomura, N. 7797, 8612
Shimoni, M. 5920, 7504
Shin, C. C. 8076
Shin, C. S. 7701
Shin, D. B. 7774
Shin, H. D. 7376
Shin, H. G. 6553
Shin, K. C. 2227, 2925
Shin, K. Y. 8476
Shin, Y. A. 2202, 5347
Shinde, N. N. 6126
Shindo, N. 5084
Shindrova, P. 1627
Shine, J. M., Jr. 7045
Shinohara, M. 8161
Shinshi, H. 2350
Shintaku, M. H. 1129, 3933
Shinyashiki, I. 1456
Shiozawa, H. 5106
Shipilova, N. P. 3504
Shipp, J. L. 8598
Shiraishi, T. 951, 4062, 5335, 7483, 8455-8456, 8599
Shirako, Y. 6590
Shirata, A. 5315
Shirokov, A. I. 8259
Shishido, T. 24
Shishupala, S. 5200
Shivanna, H. 306
Shivanna, K. R. 6231
Shivanna, M. B. 1500, 2724, 2818
Shivashankar, G. 4577, 7675
Shivashankara, K. T. 2904
Shiwani 2657, 5860
Shiyomi, M. 3766
Shkalikov, V. A. 3517
Shkurpelo, V. P. 6433
Shmyglya, V. A. 1128, 2570
Shoba, N. 2188, 4571
Shoda, M. 6461, 8544
Shoemaker, P. B. 5341
Shoemaker, R. A. 4223
Shoemaker, R. C. 3675
Shohara, K. 5596
Shoji, T. 5363
Shokes, F. M. 3072, 6250, 8282
Sholberg, P. L. 1581, 3843
Shomari, S. H. 1624
Shonukan, O. O. 4933
Shorrocks, V. M. 2603, 2867
Shortle, W. C. 7916
Showalter, A. M. 1517
Shpaar, D. 2566
Shrestha, S. M. 232, 8169
Shrivastava, A. K. 3629-3630
Shrotria, P. K. 8355
Shroyer, J. P. 4308
Shtienberg, D. 1673, 3047, 5827, 7137, 8601
Shu, W. H. 3521, 4314
Shu, X. Z. 4622
Shubha, K. 6712, 6743
Shukla, A. K. 6813
Shukla, A. N. 7909
Shukla, B. N. 6495, 8826
Shukla, C. S. 5997
Shukla, D. D. 164, 188, 192, 197, 204, 211, 296, 4249, 5097
Shukla, K. N. 1814
Shukla, R. P. 289, 1411
Shukla, R. S. 6349
Shukla, S. N. 80
Shukla, V. D. 3652
Shukle, R. H. 2703
Shul'ga, O. A. 1505
Shun, C. 7
Shurvinton, C. E. 4057, 4916
Shuster, S. 6670
Shvyrev, Yu. V. 250
Shyam, K. R. 4582, 8510, 8811
Shyam Sunder 3644
Shyu, C. C. 1132
Sibilia, A. 2294
Sibiryakova, I. I. 3448
Siblíková, D. 96
Sichkar', V. I. 8427
Sickle, G. A. van 2393, 7083
Siddaramaiah, A. L. 4010
Siddiq, E. A. 8364
Siddiqui, K. A. I. 5023
Siddiqui, N. 8119
Siddiqui, Z. A. 956, 3705, 6019, 7620
Sidorov, A. A. 888
Sidorova, T. M. 8320
Sieber, G. 3591, 6691
Sieber, T. 4312
Sieber, T. N. 3144, 7120
Sieber-Canavesi, F. 3144
Siedow, J. N. 2711
Siefert, R. E. 7262
Sieffert, A. 4848
Siegel, M. R. 7166, 7572, 8406, 8411, 8413
Siegerist, W. C. 7449

Siegfried, W. 2975, 8606
Sierota, Z. 580
Sigee, D. C. 610, 3751, 4553, 4859, 6078
Sigler, L. 6502
Signore, G. del 7465
Sigvald, R. 393, 517, 1352, 8240, 8482
Sihachakr, D. 5295
Sij, J. W. 6768
Sijam, K. 433
Sijoana, M. E. R. 1624
Sikora, R. A. 5775
Sikyta, B. 7196
Silbernagel, M. J. 191, 211, 2117
Silipo, C. 4942
Silman, R. W. 8164
Silué, D. 915, 2742, 3641, 4426
Silva, L. F. C. 1273
Silva, N. 444
Silva, N. da 3792
Silva, S. 6505
Silva, S. R. da 2066
Silva, T. M. V. 3185
Silva-Acuña, R. 3928
Silva F., F. 5159
Silva Filho, A. A. da 1240
Silveira, A. P. da 3908, 5526
Silver, S. 8026
Silver, S. L. 1342
Silver, W. L. 3164
Silverman, P. 233
Sim, A. A. 2530
Simay, E. I. 1478, 3699, 7605, 8433-8435
Simbula, M. 2882
Simčič, M. 6928
Simeone, A. M. 2238, 3840, 5405
Simeti, C. 7678
Simmleit, N. 1718
Simmonds, M. S. J. 5668
Simmons, E. G. 7346
Simmons, F. W. 247
Simmons, S. R. 1272
Simon, A. E. 1946, 2582, 5309
Simon, C. J. 8457
Simon, J. L. 2258
Simon, L. 6496, 7301, 8061
Simon, P. W. 8498
Simon, R. 4935
Simonova, M. L. 1345
Simonsen, J. 5685, 6053, 7236
Simosa C., N. C. 7845
Simova, S. 2974
Simpson, C. E. 3902, 7835, 8686
Simpson, C. G. 3578
Simpson, D. J. 4105
Simpson, J. A. 6306
Sinclair, A. H. 6058
Sinclair, J. B. 365, 1483, 2107, 2783, 5993, 7587
Šindelář, L. 4760
Šindelářová, M. 4760
Sinden, S. L. 1962
Sindermann, A. B. 7958
Sindhan, G. S. 2819, 3656, 4507, 8461, 8469
Singer, R. 1841
Singer, S. 3439
Singh, A. 2322, 3731, 4809, 5310
Singh, A. J. 1554
Singh, A. K. 3901, 4721, 5472, 5474, 6795, 7601, 7650
Singh, A. L. 8791
Singh, A. P. 4021
Singh, A. S. 7604
Singh, B. 6906
Singh, B. M. 380, 3535, 3648, 3746, 4336, 5152, 6797, 7469, 7556, 8571
Singh, B. N. 5310
Singh, B. P. 792, 3658, 6002
Singh, B. R. 6130, 7595-7596, 7598, 7726, 8546, 8570
Singh, C. S. 3343
Singh, D. 1447, 1560, 2369-2370, 6253, 7650, 8458
Singh, D. B. 1281
Singh, D. V. 2668, 3731, 4335, 5149, 5868
Singh, G. 378, 2009, 2142, 2312, 5671, 6710, 7519, 8513
Singh, G. S. 5150
Singh, H. 80, 1814, 1816, 2179, 2330, 3533, 3799
Singh, H. N. 1643, 3910, 6349
Singh, I. 3880, 4506
Singh, I. S. 4486-4487
Singh, J. 4713, 5343, 5950, 6878
Singh, J. P. 4486-4487
Singh, J. V. 5282
Singh, K. 1644, 6205-6206, 8513
Singh, K. B. 374, 4491-4492, 5274, 6018
Singh, K. G. 2369
Singh, L. N. 8446
Singh, M. 206, 748, 1643, 1765, 2664, 3910
Singh, M. J. 5343
Singh, M. P. 5275
Singh, M. P. N. 4583
Singh, N. 2142, 3911
Singh, N. I. 2871, 7604
Singh, O. 2399
Singh, P. 3787, 4406, 4593, 6366
Singh, P. J. 4301
Singh, P. L. 8791
Singh, P. P. 3800, 7597, 8249
Singh, R. 1539, 2322, 3173, 3644, 4824, 6847, 7964, 8355, 8831
Singh, R. A. 912
Singh, R. B. 8440
Singh, R. D. 8711
Singh, R. D. N. 890, 1423, 7900, 8744
Singh, R. K. 289, 1288, 1411, 2045-2046, 5142-5143
Singh, R. N. 921, 4855
Singh, R. P. 79, 257-258, 396, 844, 1393, 2153, 5568, 6463, 6646, 6744, 8270, 8291
Singh, S. 896, 2664, 2666, 3509, 4809, 5199, 5594, 5966, 6952, 8513
Singh, S. B. 5310
Singh, S. D. 1448, 4398, 4406
Singh, S. J. 2149, 5361, 7696
Singh, S. K. 625, 2129, 4460, 4493-4494, 7621, 7926, 8388
Singh, S. M. 1550
Singh, S. N. 5310
Singh, S. P. 1765, 2481
Singh, S. R. 967, 7604, 8467
Singh, T. 1447, 1560, 2370, 6253
Singh, U. D. 1795
Singh, U. P. 964, 2811, 8462, 8466
Singh, U. S. 1198, 1773, 2438, 7175
Singh, V. K. 5114, 8040
Singh, V. P. 5282
Singh, Z. 5450
Singh K. P. 6349
Singhal, B. K. 4640
Singler, D. 1042
Sinha, A. 3079
Sinha, A. K. 1013, 6704
Sinha, A. P. 895
Sinha, B. B. P. 8385
Sinha, J. N. 4021
Sinha, K. K. 6704, 7507
Sinha, O. K. 1644
Sinha, P. P. 7687
Sinha, R. C. 1474, 4261
Sinha, R. K. 7441
Sinha, R. N. 1983
Sinha, V. C. 262
Sinigaglia, C. 2199
Sinsabaugh, R. L. 701, 7286
Šíp, V. 8277
Sipos, L. 2950
Siqueira, J. O. 1273, 2514, 2526
Siradhana, B. S. 2920, 4398, 5891, 5894, 7505
Sirenko, A. S. 2042
Siriacha, P. 4396
Siriphol, M. 7147
Sirohi, S. C. 3025
Sirotkin, E. K. 934
Sisson, V. A. 7070
Sisterna, M. 2760
Sisto, A. 3248
Sisto, D. 4834
Sitansu Pan 916, 992, 1018
Sitaramaiah, K. 3228
Sitch, L. A. 7526
Siti, E. 7667
Sitton, J. W. 1046
Siva, M. C. 7049
Sivagnanam, V. 5530
Sivan, A. 1296, 6865
Sivanathan, S. 690
Sivanesan, A. 293, 2043
Sivapalan, A. 1875, 3754, 4281
Sivaprasad, P. 8136
Sivaprasad, R. 3338
Sivaramakrishnan, S. 5929
Sivaramakrishnan, V. R. 5539
Sivasithamparam, K. 3369
Sive, A. 3830
Sivolap, Yu. M. 3236
Siwi, S. S. 6713
Škaloud, V. 7817
Skalská, R. 3550-3551
Skalski, J. 4522
Skärby, L. 3163
Skaria, M. 2266-2267
Skarshaug, A. J. 1911
Skelly, J. M. 1167, 1696
Skene, K. G. M. 3861
Skinner, D. Z. 4455
Skipp, R. A. 5237, 8420
Skipper, H. D. 6486
Skogsmyr, I. 4020
Skomra, U. 5598-5599
Skořepa, J. 4604
Škorić, D. 2302
Škorpík, M. 8277
Skotnicki, M. L. 2579, 7408, 8839, 8841
Skoudridakis, M. T. 4651, 5429, 7026
Skripal', I. G. 4262
Skripka, O. V. 2308
Skrøppa, T. 3152
Skryabin, K. G. 1345, 1505, 1668
Skrzeckowski, L. J. 7422
Skrzeczkowska, S. 2154, 5288-5289
Skrzeczkowski, J. L. 2154
Skvortsova, N. P. 6607
Slack, J. M. 5412
Slack, S. A. 2166, 8204
Slade, S. J. 229, 8148
Slawson, D. D. 8515
Slay, R. M. 2015
Slightom, J. L. 212, 2347, 2913, 3034, 5360
Slimak, M. W. 7261
Slininger, P. J. 8164
Slobodyanik, V. V. 4262
Slováková, L'. 3577
Sluder, E. R. 4835, 6304
Sly, L. I. 4061
Slyusarenko, A. N. 8320
Smagula, J. M. 4172
Smaltschinski, T. 8766
Smart, M. G. 4236, 6369
Smedegaard-Petersen, V. 2038
Smeeton, B. W. 7052
Smidt, S. 8763
Smik, L. V. 6557
Smilanick, J. L. 2992, 5427
Smiley, R. W. 290, 2689, 4351, 6676
Smirnov, S. P. 1663
Smirnov, V. A. 8552
Smirnova, L. A. 6647
Smirnyagina, E. V. 1344
Smit, R. 1285
Smith, A. M. 7611
Smith, B. E. 1682
Smith, B. J. 476, 7771
Smith, B. M. 3745
Smith, C. J. 5235
Smith, C. M. 8309
Smith, C. R. 2888
Smith, D. A. 7609
Smith, D. H. 6250
Smith, D. L. 1853, 3564
Smith, E. M. 460, 2938, 5393, 6922
Smith, F. W. O. 4786
Smith, G. R. 1640
Smith, H. 5486
Smith, H. G. 8705
Smith, I. M. 1772, 8037
Smith, I. W. 5534, 6330
Smith, J. A. 5265
Smith, J. E. 3328, 4133
Smith, J. L. 3337
Smith, K. P. 5371, 6009
Smith, K. T. 7916
Smith, L., II 4395
Smith, O. D. 1100, 5992, 8686, 8688
Smith, R. 2695
Smith, R. H. 3625, 7510, 7514
Smith, R. J., Jr. 5619
Smith, S. E. 1856, 7311, 8134
Smith, S. S. 4578
Smith, V. L. 5558, 7106
Smith, W. G. 54
Smits, G. 6097
Smits, P. 8182
Smolka, S. E. 6434
Smolyak, Yu. L. 4833, 4845
Smrčka, L. 1589, 1730-1731
Smurygin, M. A. 349
Smyth, G. K. 2097
Snacken, D. 7400
Snapp, S. S. 6104
Sneath, B. J. 657
Sneh Mathur 1537, 5313
Snijders, C. H. A. 3554, 4352, 8319
Snow, G. A. 6310
Snow, J. P. 1437, 2106
Snyder, G. H. 903
So, G. H. 7332
Soares, I. 7282
Soave, J. 5518
Sobiczewski, P. 5409
Sobral, L. F. 2320
Society of Irish Plant Pathologists 5624-5625
Söderhäll, K. 110, 4101
Söderström, B. 700, 4125
Sodhi, Y. S. 4322
Soehardjan, M. 7871
Soeseno, R. 4961
Soffes, A. R. 8282
Sogou, K. 7961
Sohn, A. 3562
Sokhi, S. S. 3800, 4554, 8249
Sokolov, I. I. 8320
Solaini, J. 8530
Solangi, G. R. 2785
Solanki, M. 1160
Solanky, K. U. 8699
Solarska, E. 2419, 5598-5599
Solberg, E. D. 2631
Soleimanian, S. 6805
Solel, Z. 4399
Soleman, N. K. 1989
Soler, E. 7934
Solheim, H. 1708, 3159, 7118
Soliman, H. N. 1967, 2231, 2247
Soliman, N. K. 5137
Soliman, S. A. 8117
Sollod, C. C. 5739
Solntsev, M. K. 6655
Solomatin, D. A. 6647-6648
Solomon, J. J. 526
Solomon-Blackburn, R. M. 8478
Solomonovitz, S. 2057
Solomyakina, S. N. 419
Solon, S. L. 8154
Soloshenko, V. P. 2740-2741
Solov'ev, A. G. 5096
Solov'eva, L. M. 3530
Solov'eva, T. F. 4617

Solovyev, A. G. 1344
Somani, R. B. 968
Somari Giri 6445
Somashekar, R. K. 5740-5741
Somers, G. L. 7941
Somerville, M. C. 2395-2396
Somerville, S. 2035
Somerville, S. C. 2223, 3572, 4063
Somerville, T. H. 396
Sommarin, M. 5318
Sommerfeld, M. L. 8336
Somssich, I. E. 3241
Son, B. 5935
Song, B. 5781
Song, B. H. 7701
Song, F. G. 1677
Song, H. D. 8429
Song, S. M. 1336
Song, X. G. 7528
Song, Y. C. 2723
Song, Z. H. 4394
Songa, W. A. 8464
Soni, G. L. 5772
Soni, K. K. 7927
Soni, P. S. 3710, 4669
Sonku, Y. 1301
Sonnenberg, A. S. M. 629
Sonneveld, C. 6113
Sonnino, A. 388
Sonoda, R. M. 2145, 3209, 6912
Sonoda, T. 6895-6896, 6948
Sontakke, M. B. 6126
Sood, A. K. 3535, 4336
Sood, B. C. 6799
Sood, G. K. 3642
Soomro, M. H. 3007, 5434
Soon, S. C. 6081
Soper, D. 6424
Soper, R. S. 1767
Soran, H. 760
Sordat, B. 7263
Sordat-Diserens, I. 7263
Sorensen, E. L. 3667
Sørensen, L. 7612
Sorensen, L. H. 2161, 4528
Soria, C. 5355
Soria Navarro, C. 8587
Sorokin, E. M. 392
Sorokopudov, V. N. 4636, 8627
Sorokopudova, O. A. 2413
Sorrells, M. E. 834
Sorri, P. 276
Sorribas, F. J. 7248
Sortino, O. 2891
Soto, E. 6000
Soto, L. 4705, 5263, 6251, 7818
Soto, M. J. 8573
Sotodate, K. 6725
Sottovia, A. 6228
Souchet, H. G. 7778
Souda, E. 1536, 1544
Soufi, R. K. 3071
Soulas, G. 3307
South, D. B. 4126
South African Society for Plant Pathology 1770
Southcombe, E. S. E. 42
Southward, G. M. 4542
Soutrenon, A. 3123
Souty, M. 4639
Souza, T. M. W. 5223, 6722
Souza, T. M. W. de 4004-4005
Souza, W. de 219
Souza-Dias, J. A. C. de 8204
Souza Filho, B. F. de 1528
Sowa, G. 5283
Soyez, J. L. 4649, 8101
Spaans, J. H. 4524
Spaar, D. 5054
Spagnoli, G. 1813
Spain, J. L. 727
Spaine, P. C. 4180
Špak, J. 1187, 1743, 4552
Spalvinš, Z. 1709
Spalvin'sh, Z. P. 2389
Spanos, A. 7329-7330
Sparapano, L. 1173
Spedding, C. R. W. 8023
Speich, J. 1026
Spencer, D. M. 502
Spencer, J. 1793
Spencer, J. A. 4854, 5559, 7952-7953
Spencer, J. F. T. 502
Spencer, N. R. 8860
Spencer, W. F. 5671, 7210
Sperlingsson, K. 3589
Spessard, G. O. 2110
Spezia, S. 1817
Spielman, L. J. 231, 7321, 8490
Spiers, A. G. 7101
Spiller, N. J. 1326
Spiridonov, Yu. Ya. 4313
Spit, B. E. 3244
Spiteller, M. 7223, 7226, 8061
Spooner, D. 2831
Spoor, W. 6580
Spotts, R. A. 2965
Sprenger, A. 8253
Spriet, J. A. 1785
Sprosen, J. M. 5232
Spurr, H. W., Jr. 7029
Sreehari, M. 2406
Sreenivasa, M. N. 92, 278, 717-718, 4144, 5736, 8585
Sreenivasan, M. S. 7863
Sreenivasaprasad, S. 1929, 4616, 7776, 7802
Sreenivasulu, N. 957
Sri-Sukamto 560, 2342
Sridhar, R. 6732
Sridhar, V. V. 3195
Sridharan, C. S. 2323
Srikant Kulkarni 278, 1634, 2310, 2321, 2678-2679, 3547, 4324, 5144, 5859, 5877, 6661, 6824, 7153, 7890
Srinivas, B. 8859
Srinivas, T. 4008
Srinivasan, G. 3603
Srinivasan, N. 8679
Srivastava, A. 792
Srivastava, A. K. 8440
Srivastava, B. 8562
Srivastava, G. K. 3406
Srivastava, J. S. 3729
Srivastava, K. D. 2668, 4335, 5149, 5868
Srivastava, K. M. 792
Srivastava, L. S. 3707, 3968, 4012, 4389, 4883, 5385, 8447, 8470, 8769
Srivastava, N. N. 5479
Srivastava, P. 1644
Srivastava, P. K. 3750
Srivastava, R. C. 8236
Srivastava, S. K. 2136, 2464, 4096-4097, 7597
Srivastava, S. L. 4671-4672
Srivastava, S. N. 1644
Srivastava, V. 7888
Srivastava, V. K. 3912
Šrobárová, A. 2687
Stace-Smith, R. 5078, 8479
Stachewicz, H. 981, 2841-2842, 7648
Stack, J. P. 3113
Stack, R. W. 855, 5180, 7438
Stackebrandt, E. 4061
Stadler, B. 1620
Stahl, C. 7053
Stahnke, G. K. 2409
Staley, T. E. 2528
Stalker, H. T. 3901
Stall, R. E. 468, 1011, 1547, 1607, 7199
Stalpers, J. A. 3415
Stammler, G. 4218
Stan, H. J. 1228, 1796, 4084
Stancheva, I. 8553-8555
Stange, R. 2582
Stangelberger, J. 4267
Stangl, H. 8165
Staniulis, J. 209
Stanker, L. H. 58
Stankewitz, H. B. 2465
Stankiewicz, M. 11
Staňková, S. 7196
Stanley, J. 795, 3440
Stanley, R. 3751, 4553
Stanley, S. 7443, 8261
Staphorst, J. L. 4653
Staples, R. C. 368, 2532
Stapleton, J. J. 5835
Stark, D. M. 7880
Starr, G. L. 8768
Starr, J. L. 3950
Starrantino, A. 1600
Starý, P. 4827
Staskawicz, B. 5349, 5825
Staskawicz, B. J. 1201, 7692
Stasz, T. E. 1296
Staub, T. 1026
Stauffer, C. S. 2068
Stavely, J. R. 4475, 8442
Stawiszyńska, A. 5288
Stead, D. E. 8517
Steadman, J. R. 2122, 2126, 2791, 2796, 7607
Steck, T. R. 3230
Steck, U. 7432
Steed, G. R. 3510, 5880
Steel, C. C. 8102
Steer, J. 5468
Ştefan, A. 6716
Ştefan, S. 6716
Stefanelli, D. 3683
Stefanova, M. 4774
Steffens, W. 83, 7219
Steffenson, B. J. 2690, 4360, 7487
Stegmark, R. 2802
Stehmann, C. 5756
Steigerwalt, A. G. 8
Steiman, R. 6719
Steimle, D. 2168
Stein, A. 2412
Steinbach, P. 1090, 7815
Steinberg, C. 120, 576
Steinbiss, H. H. 3562
Steinbrenner, B. 2935
Steinegger, D. H. 5586
Steinemann, A. 1026
Steiner, P. W. 8613
Steiner, U. 4371
Steinhauer, B. 6690
Steinkellner, H. 1327, 1585, 3434, 3836
Steinle, R. 8767
Steinmetz, J. 228
Steinrücken, G. 6260
Steinwandter, H. 4079
Stelluto, S. 5681
Stenberg, B. 3311
Stenger, D. C. 2583
Stenhouse, J. W. 314, 2069
Stenina, N. V. 425
Stenlid, J. 3989
Stenning, B. C. 5197
Stenström, J. 3311
Stensvand, A. 2953
Stenzel, K. 5508, 8734
Stepanenko, G. S. 8704, 8708
Stepanova, V. K. 5532
Stephan, B. R. 1169
Stephan, S. 1045
Stephan, U. 7489
Stephen, F. M. 6309
Stephens, C. T. 8522, 8529, 8534, 8537
Stephens, P. A. 4465, 5991
Stephens, P. M. 3925
Stephenson, S. N. 8145
Sterk, G. 6453
Steuckardt, R. 3682
Steva, H. 2901
Stevanović, D. 2906, 8574
Steven, D. 7794
Stevens, B. J. H. 2444
Stevens, J. J. 7392
Stevens, M. 5486
Stevens, M. R. 2187
Stevens, P. J. G. 7735
Stevens, P. S. 7794
Stevens, W. A. 6005
Stevenson, W. R. 5284
Stewart, A. 4655
Stewart, G. R. 4990
Stewart, H. E. 2837
Stewart, J. F. 8080
Steyer, S. 6624
Steyn, P. J. 403, 2845
Stickle, W. E. 8079
Sticklen, M. B. 3142
Stiekema, W. J. 6571
Stierle, A. 149, 4896
Stierle, D. 149
Stigwood, P. L. 8297
Stiles, E. W. 1759, 7986
Stimmel, M. B. 3621
Stinson, J. 3100
Stintzi, A. 1127
Stirling, A. M. 3997, 5455
Stobbs, L. W 5424
Stock, D. 6429
Stock, W. D. 4167
Stockdale, E. A. 4216
Stöcker, R. H. 5508, 8734
Stöckmann-Becker, E. 3662
Stockwell, V. O. 7729
Stodola, A. J. W. 3351
Stoffella, P. J. 2145
Stoica, V. 3460
Stojanović, G. 6057
Stojanović, J. 3542
Stojanović, S. 3542
Stol, W. 3520
Stolte, T. 973
Stoltz, M. A. 6676
Stölzer, S. 4018
Stomp, A. M. 3156
Stone, D. M. 4836, 7082
Stone, J. K. 3982
Stork, A. 7219
Storozhenko, V. G. 4844
Storr, T. 2132
Storti, E. 7678
Stortz-Lintz, D. L. 8415
Stösser, R. 1042, 2972
Stout, D. G. 1472
Stoutamire, W. P. 1277
Stover, R. H. 3007
Stow, T. K. 1715
Straathof, T. P. 7968
Strack, B. A. 7289
Stradioto, M. F. 7079
Stradis, A. de 2969, 3770
Straker, C. J. 1280, 3354
Strandberg, J. O. 6336
Strange, R. N. 4495, 6381
Strassman, J. 4925, 4928-4929, 4931-4932
Stravato, V. 2911
Streckeisen, P. 2669
Streit, U. 237
Strelyaeva, N. I. 8723
Stribley, G. H. 5536
Stride, A. B. 8829
Strike, P. M. 4249
Strimbeck, G. R. 3164
Stringer, M. A. 4814
Strittmatter, G. 4519
Strizhekozin, Yu. A. 1453
Strobel, G. 149, 4032
Strobel, G. A. 4896
Stroĭkov, Yu. M. 2955
Stromberg, E. L. 7468, 7508
Stromberg, V. K. 659
Strongman, D. B. 1752
Strouts, R. G. 5543
Strukchinskas, M. 2555
Strukčinskas, M. 2555, 2766
Strunz, G. 4033
Stryapkova, L. V. 3802
Strzelczyk, E. 1846
Stuart, D. 7684
Stubbendieck, J. 2510
Stubbs, R. W. 3520, 8295
Stuessy, T. F. 720
Sturtevant, A. P. 8191
Stussi-Garaud, C. 5066, 5501
Stuteville, D. L. 3667, 4455
Štys, Z. 3203, 4888-4889
Su, C. C. 7745
Su, H. 2056
Su, H. J. 3003, 3013, 3216, 8643
Su, J. G. 577
Su, L. 4207
Su, Q. L. 4587
Su, S. J. 5506
Su, U. T. 2133

Su, W. C. 1218
Suarez, E. 2655
Suarez, M. 1701
Suarez-Cervera, M. 3358
Subbarao, K. V. 2106, 7599, 7788
Subero M., L. J. 2607, 7842
Šubíkova, V. 538
Subrahmanyam, P. 5470, 6249, 7828
Subramanyam, K. 1634, 2321, 2678-2679, 5877, 6661
Subramanyan, N. 7839
Subrata Chakravarty 2468
Sudarsono 8726
Sudha, S. N. 6583
Sudhir Chandra 1275, 2269
Sudhir Kumar 6432
Sudupak, M. A. 3597, 6700
Suemitsu, R. 3371
Suenaga, K. 8258
Sufgrà, M. 4850
Suga, M. 5596
Sugahara, K. 1893
Sugar, D. 2965, 5396, 7729
Sugavanam, V. 4489
Sugawara, F. 149, 4032
Sugaya, S. 3944
Sugha, S. K. 380, 1017, 3648, 3746, 7556, 7619, 8159, 8571
Sugimoto, T. 3365
Sugiura, H. 6717
Suharban, M. 3197
Sujan Singh 4809, 6952
Sujata Chaudhuri 914
Sujata Mukhopadhyay 6714
Sujatha, S. 3866
Sujkowski, L. S. 8490
Sukaimi, J. 2318
Sukamto, S. 3064
Sukanya Lal 647
Sukhoparova, V. P. 3857, 6962
Sukhwinder Singh 8513
Sukul, P. 3296
Suleman, P. 8613
Sulladmath, V. V. 2092
Sullia, S. B. 90, 98, 1302, 3333
Sulochana, K. K. 3197, 3338
Sultan, H. Y. 4113
Sultanov, S. 3951
Suma, A. 3866
Suman, B. C. 5603, 8835
Sumanta Basu 5656
Sumbali, G. 6218
Sumita Ghosh 6770-6771
Summa Phytopathologica 7173
Summer, D. R. 7355
Summerell, B. A. 5575, 8820
Sumner, D. R. 1360, 3112
Sumner, H. R. 7031
Sun, B. G. 8775
Sun, F. Z. 3227
Sun, G. C. 4421
Sun, H. H. 338
Sun, H. T. 1308, 1312
Sun, L. H. 5229, 5973
Sun, L. Y. 565
Sun, S. C. 1469
Sun, S. M. 1612
Sun, S. X. 5777
Sun, S. Y. 923, 4421
Sun, W. J. 4016
Sun, X. A. 1307, 1310, 1898
Sun, X. H. 4394
Sun, X. J. 5169-5170, 5883
Sun, Y. J. 4394, 5243
Sun, Y. L. 2013, 5249
Sun, Z. P. 5547
Sundaram, A. 675
Sundaram, K. M. S. 675
Sundari, S. S. 6517
Sunder, S. 3399, 3644
Sunderland, K. D. 4039
Sundheim, E. 132
Sundriyal, R. C. 6462
Sung, J. M. 1021, 2181
Sung, N. D. 75
Sunil, K. P. 1097
Sunil Khanna 2505
Sunita Sen 8638
Sunter, G. 1340, 5499
Suominen, P. L. 743
Suparyono 5214
Suprun, V. I. 2838
Surekha Chitkara 1560
Suresh, C. K. 1016
Suresh Kunkalikar 383
Suresh Kunkliker 971
Suriachandraselvan, M. 7545, 7825
Surico, G. 2411, 6299
Suricos, G. 3248
Sury, R. von 7924
Surya Parkash 3700-3701
Suryanarayanan, R. S. 4203
Sushil Sharma 5399, 8469
Suškevič, M. 2643
Süss, R. 601
Sutarjo, T. 2417
Sutherland, J. R. 5549
Sutherland, M. L. 2194
Sutton, B. C. 1697, 1756, 1924, 6564, 6567
Sutton, J. C. 478, 1064, 7767, 8283, 8629
Sutton, T. B. 1579, 2226, 4613, 6149, 6914
Sutton, W. J. 7082
Suty, A. 7478
Suvorinov, A. M. 4384
Suwela, I. N. 3636
Suwela, N. 2732
Suyama, K. 1217, 8639-8640, 8818
Suzuki, A. 1217, 6028
Suzuki, H. 7990
Suzuki, K. 8491, 8509
Suzuki, M. 5502, 5812
Suzuki, N. 6590
Suzuki, S. 6725, 8087
Suzuki, Y. 2732, 2751, 3636, 6713, 8367
Svejda, F. 8807
Svenson, S. E. 705
Svensson, C. 517, 3379
Svensson, S. A. 8241
Sveshnikov, P. G. 1345
Svetov, V. G. 827, 2334
Sviridov, S. I. 3954
Swaby, A. G. 1498
Swai, I. S. 1606
Swain, N. C. 5476
Swales, K. W. 1712
Swamy, B. K. N. 2916
Swank, W. T. 588
Swann, E. C. 1918
Swanson, M. M. 350, 1940, 4026
Swanson, R. G. 4073
Sward, R. J. 342
Swaroop Kumar 8634
Swart, W. J. 1085, 3136, 4798, 7363, 8771
Swarts, D. H. 3031
Sweden, Swedish Committee for Afghanistan 4037
Swedjemark, G. 3989
Sweeney, J. S. 3283
Sweet, J. B. 8667
Sweet, R. D. 54
Swennen, R. 8644-8645
Swennen, R. L. 5435
Świeżyński, K. 6036
Swinburne, T. R. 4616, 7020
Swings, J. 2752, 6412
Switzerland, EFWSL 6288
Sy, A. A. 4054
Syarova, Z. Ya. 5182
Sychev, I. P. 817
Sycheva, V. P. 817
Sychrová, E. 3550-3551
Sylvester, E. S. 2586
Sylvia, D. M. 4149, 4155, 4989, 6486-6487, 7298
Symonds, B. V. 7427, 7440
Symonds, J. 65
Symons, R. H. 4244
Syrgianidis, G. D. 3844
Syvertsen, J. P. 2516, 3006
Szabo, L. J. 1998, 3367
Szafirowska, A. 2852
Szántó, M. 4972
Szczygieł, A. 7765
Szécsi, Á. 6671
Szegedi, E. 1205
Szegi, J. 1857, 5734
Szeto, S. Y. 8103-8104
Szilágyi, J. L. 2301
Szilvasi, S. 1122
Sztejnberg, A. 6222
Szunics, L. 1392, 1392
Szymczak-Nowak, J. 5485
Szyndel, M. S. 5569
Tabata, M. 4851
Tabayashi, N. 2729
Taber, R. A. 1638, 8686
Tacon, F. le 89
Tadasa, K. 3291
Tadeo, J. L. 5415
Tadesse, D. 8275
Taffin, G. de 3062
Tagirova, V. A. 2362
Tahara, S. 2482, 4194
Taher, M. M. 5843
Tahiri-Alaoui, A. 1295, 8140
Tahvonen, R. 276, 6392, 6425
Tai, A. 8417
Tainter, F. H. 3153, 3983, 4695
Taiya, M. 1639
Tajima, S. 1287
Takada, H. 8258
Takahashi, E. 2213
Takahashi, F. 6727
Takahashi, H. 4761, 6766, 7548
Takahashi, J. 7256
Takahashi, K. 7589
Takahashi, M. 4258, 5091, 7683, 8540
Takahashi, S. 3303
Takahashi, T. 3838, 5577-5578, 7159, 7393, 7399
Takahashi, Y. 8367-8368
Takakuwa, M. 6817
Takanami, Y. 2186, 5326, 5812, 7413
Takano, T. 6727
Takara, K. 6530
Takasugi, M. 4551, 5315
Takayama, C. 1245
Takayama, S. 1217
Takechi, S. 8376
Takeda, F. 3850
Takeda, H. 4370, 6190
Takeda, K. 288, 3555, 5220, 7442
Takeda, S. 6766
Takeda, S. I. 6723-6724
Takehara, T. 5320
Takemoto, J. Y. 1217
Takenaka, M. 3293, 3646, 6717
Takenaka, S. 279
Takeuchi, J. 5579
Takeuchi, M. 6895-6896
Takeuchi, T. 2174, 5377, 6705, 6748
Takikawa, Y. 7109, 7141, 7187, 8815
Taliaferro, C. M. 929
Talieva, M. N. 3381
Talukdar, B. S. 4406
Tal'yanskiĭ, M. É. 3101
Tam, P. C. F. 4129-4132
Tamagami, S. 5940
Tamayo M., P. J. 2794, 3036
Tambong, J. T. 418
Tamborini, L. 2736, 5964
Tamer, A. Ü. 1306
Tamietti, G. 1678
Tamori, M. 6530
Tamura, K. 8815
Tan, A. M. 6285, 8746
Tan, A. S. 8674
Tan, C. S. 3415, 6784
Tan, G. J. 2083
Tan, G. Y. 7870
Tan, S. C. 8647
Tan, S. H. 5669
Tan, T. K. 4003
Tan, W. Z. 5856
Tan, Y. F. 7984
Tan, Y. J. 5249
Tan, Z. L. 7716
Tanabe, K. 2968, 3365
Tanaka, A. 7670-7671
Tanaka, C. 1287
Tanaka, H. 4062
Tanaka, K. 1613, 8809, 8833
Tanaka, M. A. S. 571, 5516, 6772, 7072
Tanaka, R. T. 6772
Tanaka, S. 997, 7959
Tanaka, T. 3293, 3646, 6711, 6717, 6730
Tanaka, Y. 31, 7146
Tanboon-ek, P. 4397
Tanda, S. 2758, 5981
Tandon, G. 5143
Tandon, I. N. 3846
Tandon, S. M. 4994
Taneja, H. K. 7241
Taneja, N. K. 7899
Tang, B. G. 5229, 5973
Tang, X. D. 2083
Tang, X. F. 8611
Tang, Y. L. 5169-5170
Tang, Y. P. 6317, 8792
Tang, Z. Y. 4142
Tangonan, N. G. 557
Tani, T. 6689
Tanigawa, M. 3780, 7775
Tanimoto, S. 4568
Taniwaki, M. H. 6697
Tanksley, S. D. 2198, 3777
Tann, R. S. 3281
Tanton, M. T. 1843
Tao, J. 5819
Tao, J. F. 1449
Tapiero, A. L. 6735, 6740
Tapio, E. 4175
Tarabrin, G. A. 5884
Taraku, N. 6272
Tarar, J. L. 3057, 4710
Taraz, K. 670
Tarba, A. M. 2351
Tareeva, M. M. 3802
Targonskiĭ, P. N. 2243
Taris, B. 6524
Tarrad, A. M. 7603
Tarruel, A. 5380
Tashiro, N. 1575, 1594, 1597, 6972
Tasi, W. H. 6219
Tate, K. G. 469, 491, 7755
Tattar, T. A. 3041, 4626
Taura, S. 2084
Tavadze, B. L. 5532
Tavantzis, S. M. 5568
Tavberidze, N. G. 4675
Tavitas F., L. 6734
Tayama, H. K. 19
Taylor, A. G. 1891
Taylor, A. J. 3532
Taylor, H. T. 3932
Taylor, J. 60
Taylor, J. D. 924, 2446
Taylor, J. E. 8794
Taylor, J. L. 7324, 8511
Taylor, J. W. 105, 775
Taylor, N. J. 6342
Taylor, P. W. J. 1642
Taylor, R. 4771, 8732
Taylor, S. J. 7848
Taylor, S. L. 8354
Tazik, P. P. 3390
Tchatchoua, J. 5209
Teakle, D. S. 805, 1027, 1942, 3449, 8359
Tebbets, S. 6843
TeBeest, D. O. 1189, 1760, 2425, 3210, 5619, 7168, 8850
Técsi, L. I. 7611
Teetes, G. L. 305
Teichgräber, P. 2109
Teixeira, A. R. R. 6213
Tekauz, A. 1402, 5874
Téliz, D. 4684, 7002
Téliz O., D. 5975
Téliz Ortiz, D. 6220, 6389, 6623, 6775, 6782
Tello, J. C. 2547, 7724
Temizel, M. M. 366
Temkin-Gorodeiski, N. 2860
Temorshuizen, A. J. 704
Tempé, J. 3235

Templeton, G. E. 4022-4023, 5619, 7169
Templeton, M. D. 742, 8154
Ten Cate, R. S. 1840
Teng, P. S. 318, 4049, 5791, 5948, 7538, 8179
Tenkouano, A. 3615-3616, 4403, 8357
Teo, B. K. 1872
Tepfer, D. 564-565
Terami, F. 7961
Teranaka, M. 5230, 8547
Teranka, M. 8436
Teraoka, T. 2751, 8481, 8588
Terashima, H. 5220
Terauchi, H. 7961
Terauchi, R. 8472
Tercé-Laforgue, T. 7320
Terent'ev, D. V. 4217
Terhune, B. T. 4477
Terlizzi, B. di 2237, 4689, 7012
Ternes, M. 2171
Ternouth, R. A. F. 7052
Terry, R. F. 2563
Tertyak, D. D. 2706
Tervola, R. 8733
Terzi, V. 3582
Tesi, R. 4596
Tesoriero, L. A. 3455
Tessmann, D. J. 1924
Testereci, H. 8405
Testoni, A. 6150
Tetlow, I. J. 8326
Teviotdale, B. L. 7753
Tewari, L. 4994
Tewari, R. K. 4096-4097
Tewari, R. N. 2182
Tewari, S. N. 904, 2733, 6464, 6718
Tewatia, A. S. 4480
Tews, L. L. 726
Teycheney, P. Y. 3938
Tezuka, N. 5347, 5421
Thach, N. Q. 4514
Thakare, K. G. 111
Thakore, B. B. L. 4877
Thakur, D. P. 898
Thakur, D. R. 3708, 8445
Thakur, M. P. 2136, 7597, 7627
Thakur, P. D. 4607
Thakur, R. P. 897, 899
Thakur, R. S. 8159
Thakur, S. 5499
Thalen, M. 7191
Thamasara, S. 4031
Thamburaj, S. 8650
Thamizharasi, V. 4543
Than, H. 2141
Thanassoulopoulos, C. C. 6195
Thangavelu, K. 3852
Thangavelu, R. 2743
Thankam, K. 5530
Thapar, H. S. 4124, 4983
Tharreau, D. 2742, 5590
Thayer, P. L. 5610
The, T. T. 1994
Theiler, R. 1053
Theiling, K. M. 1623
Thein, M. M. 2141
Theisinger-Hinkel, E. 4885
Theodorou, C. 6473
Theoduloz, C. 7636
Thériault, G. 2196
Theron, D. J. 403, 7649
Therrien, C. D. 5292
Theruhisa, M. 4416
Theu, M. P. K. J. 1427, 2717, 2719
Thewessen, T. 8115
Thiagarajan, K. 528
Thiagarajan, T. R. 8135, 8139
Thicoïpé, J. P. 4563-4564
Thielemans, S. 7198
Thielges, B. A. 5537, 8774
Thind, B. S. 3710
Thind, T. S. 3800, 8634
Thingstrup, I. 450
Thippanna, G. M. 5530
Thippannawar, C. M. 957
Thirakhupt, V. 2636
Thiyagarajan, K. 7622
Thole, V. 8213
Thomas, A. 7252
Thomas, B. 679, 1798
Thomas, C. E. 447, 4232
Thomas, C. M. 8541
Thomas, D. 1377
Thomas, H. J. 7302
Thomas, J. E. 3664, 8667
Thomas, J. M. 3725
Thomas, M. D. 1428
Thomas, P. 2563
Thomas, P. E. 6034
Thomas, P. S. 6497
Thomas, R. S. 8138
Thomas, T. M. 1048
Thomas, W. T. B. 2036
Thomashow, L. S. 852
Thömmes, P. 7412
Thompson, A. H. 7669, 7973
Thompson, A. R. 3257
Thompson, B. D. 5718
Thompson, D. G. 4033
Thompson, D. P. 4191
Thompson, J. N. 5115
Thompson-Taylor, H. 4757
Thomson, B. D. 97, 7287
Thomson, J. A. 6458
Thomson, S. V. 1041, 6913, 7741-7742, 8622
Thomson, W. T. 674, 4937, 5660, 7207
Thomzik, J. E. 8734
Thordal-Christensen, H. 2038, 4362, 8327
Thornbury, D. W. 195
Thornton, J. 6059
Thorpe, C. J. 5131
Thottappilly, G. 8180
Thottappilly, G. 633, 2587, 4500-4501, 8345, 8467
Thouvenel, J. C. 1142-1143, 1569, 4534
Thouvenot, D. 5339
Threlfall, D. R. 4231
Thudium, J. 6323
Thunemi, J. 5422
Thurley, B. E. V. 3613
Thurston, H. D. 3715, 4045
Tian, B. 3095, 8728
Tian, G. Z. 7416
Tian, P. 2594
Tian, R. Y. 6092
Tian, X. D. 1612
Tiberi, R. 8772
Tiburzy, R. 2654
Tichá, H. 4229
Tidsskrift for Planteavls Specialserie 8004
Tiedemann, A. V. 831-832, 4342, 6971
Tien, M. 1239
Tien, P. 3104
Tierney, J. W. 5608
Tigira, K. 5335
Tikhonov, N. P. 8362
Tikhonova, N. A. 913, 2611
Tikhonova, T. N. 3899
Tikhonova, T. V. 8362
Tikoo, M. L. 4460, 8388
Tikoo, S. K. 6109
Tilak, K. V. B. R. 1864
Tillotson, P. M. 1809
Tilquin, J. P. 7527
Timar, D. 8651
Tímár, T. 3289
Timbal, J. 697
Timberlake, W. E. 4814
Timmer, L. W. 506, 1604, 2265, 6988, 6993, 7796, 7798
Timmerman, B. 5084
Timmerman, G. M. 4483
Timmermans, M. C. P. 300
Timmins, P. A. 5057
Timonina, V. N. 392
Tinsworth, E. F. 8077
Tiongco, E. R. 5948, 8368
Tippett, J. T. 7908
Tiprigan, M. 71
Tirilly, Y. 2880, 5339
Tirodimos, I. 3387
Tiryaki, O. 5826
Tishchenko, E. I. 1114
Tisselli Filho, O. 8425
Tisserant, B. 4159
Tisserat, N. A. 3999
Titov, D. A. 461
Titova, L. P. 461
Tivari, R. K. 4813, 7919, 8780
Tivoli, B. 982, 2114, 3388
Tiwari, C. K. 3132
Tiwari, R. K. S. 7978
Tiwari, S. P. 5870-5871, 8826
Tiwari, V. 1466
Tjamos, E. C. 4288
Tkachenko, M. P. 978, 1514
Tkacz, J. S. 1757
Tlapal Bolaños, B. 6781
Toben, H. 3200
Tocci, A. 2491
Tochihara, H. 8201, 8589
Todd, A. D. 291, 2702
Todd, J. W. 3433, 8680
Todd, T. C. 4162
Todoroki, M. 6972
Todorova-Panaĭotova, M. 1394
Todorović, B. 6241
Todorović, V. 8574
Toenniessen, G. H. 5639
Tofoli, J. G. 6779
Toft, D. 7482
Togashi, J. 1002, 6841
Togawa, M. 7141
Toiviainen, A. 6077
Tojo, M. 7389
Tokhadze, Z. V. 2219
Tokunaga, S. 5402
Toky, O. P. 5732
Tola, E. 4064
Toledo, A. C. D. 3185
Toler, J. E. 1176
Toler, R. W. 1427, 2717-2719
Tollin, P. 797, 5067
Tolstova, Yu. S. 2448
Toma-Braghini, M. 1546
Toman, J. 7500
Tomar, J. B. 4442
Tomar, S. S. 2468, 6463
Tomaru, K. 5570, 8208, 8210
Tomás-Barberán, F. A. 1241
Tomás-Lorente, F. 1241
Tomashevskaya, O. L. 5096
Tomaz, R. 2885
Tombe, M. 626
Tomikawa, A. 1052
Tomio, T. 6803
Tomita, B. 74
Tomita, H. 6447, 8087
Tomita, Y. 5348, 6190
Tomley, A. J. 6367
Tomlinson, D. 1317, 1639, 1746
Tomlinson, F. L. 582
Tomlinson, G. H. 582
Tommerup, H. 1131
Tommerup, I. C. 721, 3369, 4974
Tompkins, D. K. 1388
Toms, P. M. 8727
Tong, X. M. 1455
Tonini, G. 3863
Tonno, A. di 2994, 5121
Tonogai, Y. 3284
Tooley, P. W. 731, 8490
Toporovskaya, Yu. S. 8704
Topp, B. L. 468
Toraby, E. 2699
Torazzo, G. 2736, 5964
Tores, J. A. 4600
Torigoe, H. 8589
Toriyama, S. 3633, 4258, 5091
Tornaghi, R. 6010
Torne, S. G. 6030
Tornero, P. 3764, 8551
Toro, N. 5729
Torrance, L. 8484
Torre, G. della 6944
Torre Almaraz, R. de la 6164
Torres, A. 3894
Torres, B. A. 6465
Torres, J. 3358
Torres, P. 4134, 4138
Torres-Montalvo, H. 1435, 3614, 3618
Torres-Pacheco, I. 8575
Torres Vázquez, E. 6812
Torriani, S. 3468
Torronen, M. 8841
Torstensson, L. 3311
Toscano, N. C. 2896, 6090
Tosh, J. E. 3328, 4133
Toshima, I. 4356
Tosi, L. 521, 3056, 4709, 6273
Tošić, M. 188, 296, 1504, 2906, 5911, 6057
Tosserams, M. W. A. 5708
Tóth, A. 6671
Tothill, I. E. 1385
Touart, L. W. 7261
Toubart, P. 5258
Tough, S. A. 533
Touraud, G. 3545, 6794
Tourvieille de Labrouhe, D. 2299
Tourvielle, D. 4707
Tousignant, M. E. 2888, 5326
Toussaint, A. 7971
Toutain, F. 7429
Touzé, A. 6613
Touze-Soulet, J. M. 5005
Touzeau, J. 3219
Tovar, G. 4736-4750
Tovar Rodriguez, G. 4750
Tow, S. A. 4003
Toyoda, H. 3316, 6411
Toyoda, K. 7483
Toyota, K. 2177, 5034, 6542
Traag, W. A. 2451
Tranquilli, G. 2655
Trapero-Casas, A. 2135
Trappe, J. M. 694, 703, 706-709, 1844, 3347, 3349, 4968, 5726
Trappe, M. J. 708
Traquair, J. A. 6141
Traub-Eberhard, U. 7220
Traue, H. 7911
Travis, J. W. 6924-6925, 7740, 8614
Treu, R. 4136
Treutter, D. 2931
Trevelyan, G. 5487
Trevisan, M. 4233
Tribble, G. W. 574
Tribhuwan Singh 1447, 1560, 2370, 6253
Tribulato, E. 2263, 6991
Tribun, P. A. 3127
Trichilo, C. L. 48
Trif, V. 3460, 3583
Trigiano, R. N. 341
Trigoe, Y. 5311
Trinci, A. P. J. 4205
Triolo, E. 3102, 6940
Tripathi, B. K. 3912
Tripathi, D. P. 7595-7596, 7598, 8546, 8570
Tripathi, H. S. 2139, 5275
Tripathi, K. C. 4671-4672
Tripathi, R. K. 1816
Tripathi, S. C. 1831
Tripathi, S. K. 7601
Tripathi, Y. C. 77
Trivellas, A. E. 8309
Trněná, L. 974, 2886
Tronsmo, A. 144, 230, 4176, 5001, 8186
Tropiano, F. G. 2923, 3841
Troshina, N. B. 2642, 2644, 3514, 5156
Trotta, A. 4169
Trottet, M. 3545
Trotuş, E. 3460
Trueheart, J. 1418
Trujillo, E. E. 6341, 6354
Trujillo, G. 2817
Trujillo, G. E. 2722, 2855, 4250, 7658
Trujillo P., G. E. 2440
Truman, C. C. 1810
Trumble, J. 6169
Trumble, J. T. 6090
Truneh, A. 3375, 7264-7265
Trunenkov, I. P. 7897-7898
Truol, G. A. 2708

Trüper, H. G. 1781
Trutmann, P. 946, 1492
Trzcińska, M. 5710
Tsaftaris, A. 3387
Tsai, C. H. 5092, 6844
Tsai, H. F. 7572
Tsai, J. H. 421, 1331, 3789, 4256, 5087, 7498
Tsai, J. N. 4387
Tsai, M. C. 3003
Tsai, S. W. 6070
Tsai, T. W. 6070
Tsai, W. H. 1297, 2063, 4387, 4602, 5917, 6545, 6943
Tsai, Y. J. 3907
Tsakadze, T. A. 5457
Tsao, D. 8740
Tsay, J. G. 4601, 6216, 7143
Tschanz, A. T. 4468
Tschen, J. S. M. 6459
Tschiedel, I. 3868
Tseng, C. T. 4378
Tseng, T. C. 3372
Tsiftsoglou, A. S. 3387
Tsinger, V. I. 451
Tsoglin, L. N. 392
Tsuchiya, K. 626, 939
Tsuchizaki, T. 172, 5106, 5596, 8211, 8818
Tsuda, M. 1287
Tsuda, S. 8208, 8210
Tsuda, T. 2964
Tsuge, H. 157
Tsuge, S. 5080, 6591
Tsuge, T. 6949, 7777, 8559, 8628
Tsuji, J. 4063
Tsukamoto, T. 3712
Tsukiboshi, T. 1433, 2091, 7502
Tsukiji, K. 6726
Tsumura, Y. 3284
Tsunemi, J. 5334, 5364
Tsuno, K. 6399
Tsuruta, O. 8168
Tsushima, S. 2087
Tsutiya, S. 7697
Tsuyumu, S. 7109, 8815
Tsuyushige, M. 8258
Tsuzaki, Y. 5074
Tsyplenkov, A. E. 1190
Tu, C. 3659
Tu, C. C. 1297, 2063, 4602, 6219, 6545, 6943, 8528
Tu, J. C. 941, 2124, 5336, 6784-6785, 7610
Tubelis, A. 5437
Tucker, D. P. H. 8655
Tucker, W. 1421
Tudzynski, P. 1285, 8152
Tugnoli, V. 2335, 3922-3924
Tugwell, N. P. 5954
Tuin, W. R. van der 3244
Tuininga, A. R. 5606
Tuinstra, L. G. M. T. 2451
Tuite, J. 7445
Tully, J. G. 3459
Tung, B. K. 4601, 7143
Tung, P. X. 4529, 6828
Turapin, V. P. 3588
Turbek, C. S. 7609
Turchetti, T. 4795, 6228
Turgeon, B. G. 5761
Turgeon, R. 4242
Turhan, G. 406, 6903
Turian, G. 6442
Turkington, T. K. 8670
Turkish Phytopathological Society 1195
Turková, V. 2886
Turnbull, L. V. 3997
Turnbull-Ross, A. D. 4257, 5085
Turner, B. M. 3209
Turner, F. T. 6768
Turner, G. 5771
Turner, J. 7447
Turner, J. G. 3943
Turner, M. A. 5645, 5655, 6408
Turóczi, G. 282
Turpen, T. 187
Turpen, T. H. 8192
Turunen, M. 7930
Turyamureeba, G. 8273
Tuşa, C. 1386
Tushemereirwe, W. K. 6201
Tuzović, J. 6916
Tuzun, S. 1130, 2439
Tvarůžek, L. 3544
Twengström, E. 1352
Twengström E. 517
Twiddy, D. R. 1460
Tyagi, P. D. 2071, 7619
Tyler, B. M. 734, 2536, 3467
Tylkowska, K. 2866
Tynan, J. L. 7243
Typas, M. A. 1292
Tyulkina, L. G. 5058
Tyuterev, S. L. 978, 1416, 1514
Tyutyunnik, V. I. 7981
Tzean, S. S. 3408, 5600
Tzen, S. L. 7143
Tzeng, K. C. 5927, 8830
Uchida, J. Y. 527, 1740, 7382
Uchimiya, H. 3944
Uchino, H. 8712
Uchneat, M. S. 7709
Udagawa, H. 2964
Udagawa, S. I. 7148
Uddin, W. 6676
Udrea, A. 3460
Uecker, F. A. 2257
Ueda, S. 8260
Uehara, K. 5677
Uekusa, H. 8588
Uematsu, S. 5576-5578, 7959, 8599
Uematsu, T. 2091, 7502
Ueng, P. P. 2015
Ueno, S. 5334
Ueno, Y. 8509
Ueyama, I. 6448
Ugaki, M. 3765
Ugalde, E. D. 5876
Ugolini, A. 489
Ugrekhelidze, D. Sh. 2219
Uhr, D. V. 3587
UK, British Crop Protection Council 8865
UK, Integrated Pest Management Working Group 4906
UK, Overseas Development Administration 8257
Ukai, Y. 3767
Uknes, S. 4757, 8247
Ul-Hussnain, S. 5650
Ulaganathan, K. 1791
Ulakhovich, N. A. 5691
Ulhoa, C. J. 1889
Ulhrich, P. 7162
Ullman, D. E. 1939, 2584, 3026, 4240, 5351, 5813
Ulloa-Godinez, M. 8506
Ullrich, C. I. 1741
Ullrich, M. 8430
Uma Verma 1316
Umaerus, V. 7423
Umapathy, P. N. 4318
Umeda, T. 6449
Umekawa, M. 1535
Umemoto, S. 5395, 6931, 7744
Umesha, K. 4010
Umnov, A. M. 6655
Un, U. A. 5691
Underwood, C. D. T. 2397
Unestam, T. 1161
Uniyal, K. 4124, 4983, 7909
Unkles, S. E. 5011, 5013
Unrath, C. R. 1579
Uotila, A. 7111
Uozumi, T. 172
Upadhyay, R. S. 965, 4060, 4926
Upadhyaya, G. 2724
Upadhyaya, H. D. 5480
Upadhyaya, M. L. 5694
Upchurch, R. G. 1484, 8428
Upper, C. D. 6009
Urakawa, F. 6726
Urakawa, H. 6725
Urashima, A. S. 331
Urban, I. 3998
Urban, M. 108
Urbasch, I. 4826
Urech, P. A. 3288
Urfer, W. 1170
Ursing, J. 4918
Urunov, I. 1671
Urushizaki, S. 2078
USA, Alliance for a Clean Rural Environment 7233
USA, Florida Department of Agriculture and Consumer Services 1961
USA, McKenna & Cuneo Inc. 4077
Usall, J. 2225
Usha, C. M. 7536
Ushiyama, K. 8544, 8639-8640
Usman, K. M. 7839
Usman, M. 7841
Usmani, T. A. 1641, 7039
Usmanova, I. G. 3517
Usmany, M. 806
Usseglio, J. M. 8075
Üstün, A. S. 6597
Üstün, N. 281
Usugi, T. 1530
Uthamasamy, S. 5514
Utkhede, R. S. 460, 1574, 2938, 5393, 6922
Uvah, I. I. 5342
Uyeda, I. 189, 1339, 2589, 2729, 8227
Uyemoto, J. K. 513, 4625, 5407, 8255
Uys, M. D. R. 7669
Uzawa, J. 2751
Vaast, P. 7310
Vaccari, G. 536
Václavek, L. 4888
Vad, K. 4362
Vadhera, I. 8826
Vadivel, G. 6285
Vagny, P. 2986
Vahldick, S. 1789
Vaidya, J. G. 3965
Vail, P. 6843
Vaillancourt, L. J. 824
Vaira, A. M. 5123, 8202
Vaithilingam Sekar 6583
Vajna, L. 2230, 2971
Vakalounakis, D. J. 2192
Vakhabov, A. Kh. 1534
Vakhitov, V. A. 3514
Vakili, N. G. 3366
Vala, D. G. 8386, 8699
Valarini, P. J. 370, 5267
Valdes, E. 7935
Valdés, M. 3344
Valdivia, R. H. 5649
Valencia, J. 7154
Valent, B. 909
Valentin, P. 1118
Valentine, S. C. 4447
Valentino, A. 2994
Valenzuela, S. 1393
Valerin R., M. 2337
Valerio, J. T. de 4894
Valès, M. 2079
Vali, R. J. 73
Valiathan, M. S. 7025
Valk, H. van der 7203
Valkonen, J. 6041, 8473
Valkonen, J. P. T. 2152, 6012
Vallavieille-Pope, C. de 2037, 2693, 5896
Valle, E. dalla 5588
Valle, R. P. C. 793
Valle, T. 1880
Valle Ribeiro, M. A. M. do 8412
Valovikova, G. D. 8704, 8710
Valsangiacomo, C. 1044, 2949
Valverde, E. 3793-3794
Valverde, R. A. 4875, 5557, 8604
Valynets, A. P. 5129
Van Alfen, N. K. 5461, 6225
Van Asch, M. A. J. 547, 2065
Van Assche, C. 6455, 7666
Van Bokhoven, H. 5063
Van Bruggen, A. H. C. 6104, 7682
Van Buuren, M. 2350
Van Dam, B. C. 1156
Van de Baan, H. E. 5663
Van de Rhee, M. D. 4756
Van de Velde, R. 1640, 8115
Van de Vossen, E. 5076
Van de Weg, W. E. 2956, 2959
Van den Ackerveken, A. F. J. M. 811
Van den Ackerveken, G. F. J. M. 437, 4585, 5331
Van den Berg, F. 4102
Van den Berg, M. A. 5444
Van den Elzen, P. J. M. 973, 4765, 5509
Van den Eynde, R. 7251
Van der Beek, J. G. 7677
Van der Berg, C. G. J. 6232
Van der Berg-Velthuis, C. 6096
Van der Bruggen, P. 6833
Van der Cruyssen, G. 5753, 5757
Van der Does, C. 8720
Van der Gaag, M. 7113
Van der Graaf, N. A. 1653
Van der Gucht, K. 1904
Van der Kamp, B. J. 2387, 7114
Van der Kolk, J. 1799
Van der Meer, F. A. 2980
Van der Meer, L. J. 6346
Van der Merwe, M. 2286
Van der Merwe, M. de V. 2282
Van der Merwe, M. H. 3018
Van der Plas, C. H. 6071, 7135
Van der Scheer, H. A. T. 2943
Van der Tuin, W. R. 3244
Van der Valk, H. 7203
Van der Veken, P. 1904
Van der Vlught, R. A. A. 8725
Van der Vlugt, C. I. M. 184, 8816
Van der Vlugt, R. 186
Van der Vlugt, R. A. A. 2348
Van der Voet, H. 1156
Van der Wel, C. 7668
Van der Westhuizen, G. C. A. 3405
Van der Westhuizen, I. P. 8771
Van der Wolf, J. M. 4530
Van der Zouwen, P. S. 4056
Van Dijk, H. F. G. 7113
Van Doorn, W. G. 1735
Van Du, P. 4438
Van Duin, W. E. 4991
Van Dyke, C. G. 1766, 5620-5621
Van Eeden, S. J. 6927
Van Eeuwijk, F. A. 5488
Van Eijk, C. 4871
Van Emmelo, J. 5505, 8219
Van Etten, J. L. 1751
Van Ewijk, P. H. 7232
Van Gardingen, J. 407
Van Genuchten, M. T. 5671
Van Gestel, C. A. M. 1246, 7208
Van Gijsegem, F. 4292
Van Ginkel, M. 1985, 1993
Van Greuning, M. 630
Van Grieken, R. 4964
Van Griensven, L. J. L. D. 629
Van Grinsven, M. Q. J. M. 4759
Van Halder, I. 7203
Van Harten, D. C. 6435
Van Heerden, H. G. 7889
Van Hemmen, J. J. 6436
Van Ingen, C. W. 3415
Van Kammen, A. 8468
Van Kan, J. A. L. 437, 811, 2195, 4585, 5331, 5745-5746, 6096
Van Keuren, R. W. 7564
Van Krammen, A. 5063
Van Kruistum, G. 7668
Van Kuik, A. J. 7948
Van Lent, J. 4253, 8468
Van Lent, J. W. M. 633, 5063
Van Lenteren, J. C. 5663
Van Loon, L. C. 3098, 7059

Van Montagu, M. 112-113, 145, 6538, 8219
Van Niekerk, H. A. 1987
Van Nuenen, M. 8030
Van Oijen, M. 6819
Van Parijs, J. 7901
Van Pelt, J. A. 2016
Van Poelwijk, F. 5061
Van Praag, H. 4964
Van Raak, M. 1052
Van Regenmortel, M. H. V. 170, 808-809, 7402
Van Rensburg, G. D. J. 299, 4381-4382
Van Rensburg, J. B. J. 4381, 5915
Van Rhijn, J. A. 2451
Van Roekel, J. S. C. 4765
Van Roestel, C. 2695
Van Santen, G. 2952
Van Schalkwyk, D. J. 280, 1404
Van Schepen, A. 4759
Van Scoyoc, S. W. 7508
Van Sickle, G. A. 2393, 7083
Van 't Klooster, J. W. 5745
Van Vliet, P. J. M. 7208
Van Vuuren, S. P. 3012, 3018, 5444
Van Wambeke, E. 6455, 7666
Van Wert, S. L. 736
Van Wijk, A. J. P. 5984
Van Wyk, P. 7363
Van Wyk, P. S. 1923, 3412, 7131, 7326
Van Wyk, P. W. J. 4228
Van Zaayen, A. 4871
Van Zanten, L. F. 2000
Van Zoonen, P. 5679, 6435, 8068
Van Zyl, F. G. H. 4653
Van Zyl, W. H. 3424
Vanachter, A. 6455, 7666, 8561
Vance, V. B. 187
Vancini, F. 30
Vančura, V. 96, 2509
Vandamme, E. J. 1785
Vandana Tiwari 1466
Vandelli, F. 6179
Vandenberg, J. D. 1041
Vandeputte, D. 4964
Vander Zaag, P. 6828
Vanderlaan, M. 58
Vandevelde, T. 8075
VanEtten, H. D. 6020-6021, 8163
Vanev, S. G. 770-771, 1921-1922, 6554, 6559, 7371
Vangessel, M. J. 6694, 7496
Vanhaelen, M. 7021
Vanhaelen-Fastré, R. 7021
Vanhanen, S. A. 743
Vanjare, N. 6495
Vánky, K. 777-778
Vann, D. R. 3164
Vannacci, G. 2869, 3582
Vannel, D. 6185
Vanner, A. L. 7932
Vannucci, D. 4946
Váňová, M. 2623
Vaquero, C. 7698
Varbanets, L. D. 1216
Vardavakis, E. 1858
Vardi, A. 2263, 6991
Väre, H. 693
Varfolomeeva, L. A. 7879
Vargas, E. 3793
Varghese, G. 554
Varghese, M. 1098
Variar, M. 3652
Varkey, K. J. 5530
Varley, D. A. 515
Varma, A. 350, 7388
Varma, A. K. 6492
Varma, B. R. 5149
Varma, K. V. R. 3706
Varma, R. 2370
Varma A. 1354
Varman, P. V. 5473
Varney, P. L. 3664
Varón de Agudelo, F. 5998
Varsavasky, E. 3894
Varshney, P. 625
Varvaro, L. 6197
Várzea, V. M. 5491
Vašáková, A. 3550
Vasal, S. K. 3603
Vasanthakumar, H. L. 4415, 5213, 6720
Vasconcelos, M. I. 7049
Vasetskaya, M. N. 4345
Vashchenko, A. P. 356
Vashistha, R. N. 2897
Vasil'ev, A. N. 4326, 5863
Vasil'ev, V. V. 8328
Vasil'eva, T. Ya. 243
Vasilieva, G. K. 6962
Vasil'kovskiĭ, S. P. 8279
Vasinauskienė, M. 2612
Vasquez, E. A. 6835
Vásquez Carrillo, G. 1431
Vasudevan, N. 6620
Vasyurenko, Z. P. 1216
Vaughan, D. 3695
Vaughan, D. A. 2731, 5942, 5947
Vauterin, L. 6412
Vázquez, C. 5029
Vazquez, E. 6188
Vázquez, M. del R. G. 2447
Vear, F. 2299
Vecchia, P. T. della 5345
Věchet, L. 3536, 4366
Vechtomova, T. N. 1416
Ved Prakash 8236
Vedamuthu, P. G. B. 4884, 6350
Vedder, M. 4126
Veena Chawla 5143
Veerabadhiran, P. 3065
Veeranjaneyulu, K. 7110
Veeraragavathatham, D. 455
Veeresh, G. K. 8356
Vega, C. R. 6602, 7525
Vega, F. E. 8235
Vegetti, G. A. 3181
Vegh, I. 2404
Veiazhahan, R. 1184
Vejsadová, H. 96
Veken, P. van der 1904
Velasco, M. V. 4600
Velazhahan, R. 2323-2324, 7555, 7820
Velazquez, C. 8312
Velázquez, M. T. 5366, 7721, 7723, 8590
Velázquez Quintero, C. 6220
Veld, N. I. 1444
Veld, N. in't 1444
Velde, R. van de 1640, 8115
Velez, A. 4711
Vélez, H. 3688
Velicheti, R. K. 365, 2783
Veljović, P. 2051-2052
Velusamy, A. 2082
Velusamy, R. 2734, 2745, 2747, 8383
Vendemia, M. E. 5004
Venegas, V. H. A. 4735
Venette, J. R. 2119
Venette, R. C. 2119
Venezuelan Society of Phytopathology 6377
Venkatachalam, S. 4203
Venkataraman, S. 5939, 7550
Venkatasubbaiah, P. 635, 1766, 2185, 2386, 2426
Venkatesh, H. 4390
Venter, M. W. 7302
Venter, S. L. 403
Ventosa, B. 3868
Venugopal, M. N. 8825
Vera, P. 8551
Vera Cruz, C. M. 920, 1463
Vera-Estrella, R. 8565
Verbakel, H. M. 4524, 4585
Verbyla, D. L. 4838
Verchot, J. 8215
Verdejo, S. 1262
Verduin, B. J. M. 5796
Vergara, B. S. 5969
Verhoeff, K. 6375
Verhoyen, M. 7400
Verkerk, R. 7677
Verkley, G. J. M. 4184
Verlouw, H. 8115
Verma, B. C. 6432
Verma, B. R. 6016
Verma, H. N. 791
Verma, J. P. 1674, 2364, 3956, 7388
Verma, K. S. 221, 4615, 4681, 4688
Verma, P. R. 1093, 1872
Verma, R. K. 3398, 4983
Verma, R. N. 3968, 4713, 5385, 7503, 8470
Verma, R. S. 3702
Verma, S. K. 3628
Verma, T. S. 2182
Verma, U. 1316
Verma, V. S. 3940
Verreet, J. A. 7457
Verslagen en Mededelingen van de Plantenziektenkundige Dienst, Wageningen 8861
Verslues, P. E. 7848
Versluijs, J. M. A. 4871
Vertigan, W. A. 5176
Vertokhina, N. A. 6607
Verver, J. 8468
Verweij, R. 1116
Veselá, G. 2609
Veselý, F. 3203
Vesonder, R. F. 1762, 4897, 6363, 7999
Vessel, T. 4191
Vestberg, M. 693, 3341
Vetten, A. F. H. J. 2172
Vetten, H. J. 193, 1117, 3815
Vetter, L. 8750
Vetterlein, D. 4170
Vibha Srivastava 7888
Vibio, M. 1955, 4862
Vicchi, V. 1054, 1587
Vicente, M. C. de 3777
Vícha, Z. 4229
Vicherov, E. 1671
Vick, B. A. 5180, 7438
Victoria K., J. I. 6255
Vida, J. B. 1259
Vidal, A. 1077
Vidal, M. T. 8137
Vidal V., R. 6937
Vidhyasekaran, P. 4429
Vidić, M. 3680
Vidrich, V. 4850
Vidrih, R. 6928
Vidya Parkash 5154
Vieira, A. 3027
Vieira, C. 4479
Vieira, J. V. 1525
Vierheilig, H. 4772
Vietto, L. 3138
Viguier, M. F. 3811
Vijai Pal 5966
Vijayalakshmi, M. 5737
Vijayan, A. K. 3975, 7905
Vijayaraghavan, H. 3078
Viktorchik, I. V. 4511
Vila, S. B. 6538
Vilardell, P. 2966-2967
Vilariño, A. 722, 5722, 7300
Vilas, E. P. 5425
Vilchez, J. L. 5684
Vilich, V. 6631
Vilich-Meller, V. 7444
Viljoen, A. 8760
Villalta, O. 342, 7565
Villar L., A. C. 6076, 6540
Villaroel, R. 5084
Villarreal-Gonzalez, M. J. 3715, 6804
Villarroel, R. 145, 6538
Villaseñor M., E. 6674
Villaseñor Mir, E. 6641
Villechanoux, S. 6211
Villegas, V. N. 4683
Villemson, S. V. 6860
Villeneuve, N. 2494
Villevieille, M. 3788, 3811
Villiers, E. E. de 2279
Vinayagamurthi, A. 1073
Vincelli, P. C. 2768
Vincent, C. 4043
Vincente, A. C. P. 5084
Vindimian, M. E. 1571
Vineis, P. 1247
Vinnik, I. N. 349
Vinogradova, N. I. 4373
Vinokurova, T. P. 1369
Viñuela, E. 4270
Violini, G. 6010
Vir, D. 1450, 2074, 5212, 7534
Virányi, F. 523-524, 6239
Viret, C. 7757
Viry, M. 5083, 8221
Visalakshi, A. 3338
Visconti, A. 2294, 2541
Vishnichenko, V. K. 3743, 5081
Vishunavat, K. 6115
Vishwa Nath 312
Vishwakarma, S. K. 4009
Vishwanath, K. P. 2150
Visintin, L. 4060, 4926
Visser, A. F. 2845
Visser, J. 5748, 8158
Viswanathan, R. 4437, 5963
Vita in Campagna 1794
Vitagliano, C. 1270
Vitanov, M. 1559
Vítek, A. 3550
Viterbo, A. 5754
Vitou, J. 2421
Vitti, A. J. 6950
Vittoria, A. 4942
Vivekanandan, P. 2737
Vivero, M. 8255
Vivian, A. 2446, 3242
Vlak, J. M. 806, 5063
Vlas, V. 8832
Vlasáková, A. 1475
Vlasov, D. Yu. 2332
Vlasov, N. M. 1520
Vlcek, J. 3143
Vliet, P. J. van 7208
Vloemans, S. A. 4765
Vlugt, C. I. M. van der 184, 8816
Vlugt, R. A. A. van der 2348, 8725
Vlugt, R. van der 186
Voet, H. van der 1156
Vogel, A. M. 4913, 4917
Vogelgesang, J. 1249
Vögeli, U. 4764
Vögeli-Lange, R. 4764
Vogelsanger, J. 6856
Vogt, T. C. 595
Vohra, R. 2461
Voicu, M. 1976
Voisard, C. 666, 883
Volgin, V. V. 8710
Volk, T. 237
Völksch, B. 8430
Volokitina, M. V. 1364
Volosatova, E. G. 1367, 1501
Volovik, A. S. 398, 985, 2159
Volpert, R. 4846
Volpin, H. 6329
Voluevich, E. A. 8305-8306
Von Aderkas, P. 1752
Von Alten, H. 5727-5728
Von der Schulenburg, H. 3200
Von Gönner, M. 2704
Von Kröcher, C. 2002, 4294
Von Qualen, S. K. 5923
Von Schwartzenberg, K. 3160
Von Sury, R. 7924
Von Wahl, P. G. 3356
Von Weissenberg, K. 4789
Voogt, W. 6113
Vornam, B. 5508
Vorob'eva, Yu. V. 1511-1512, 2158, 2840
Voronina, L. P. 1826
Voronina, S. A. 261
Vörös, I. 1857, 5734
Vörös, Y. 2301
Voss, R. E. 6069
Vossen, E. van de 5076
Vostřel, J. 3203
Vostrov, I. S. 1136
Vouland, G. 5553
Vovides, A. P. 4987

Vovlas, C. 2876
Vovlas, N. 8632
Voyksner, R. D. 57
Voženílková, B. 4556, 4604, 6134, 6901
Vrain, T. C. 1574
Vries, G. A. de 1861
Vries, J. N. de 2858, 5304
Vries, P. J. de 6927
Vries, T. de 2858
Vrijhof, H. C. 8707
Vulsteke, G. 2121
Vuorinen, M. 3134
Vurro, M. 5025
Vuuren, S. P. van 3012, 3018, 5444
Vuylsteke, D. 8644-8645
Vuylsteke, D. R. 5435
Vyas, K. M. 1704
Vyas, N. L. 6208
Vyas, S. C. 966
Vypritskaya, A. A. 2624, 4217
Waage, J. K. 1
Waalwijk, C. 5822
Waard, M. A. de 2463, 3298, 4105, 5693, 5756, 5759
Waard, M. D. de 1815
Wabiko, H. 3237
Wächter, V. 3539
Wacker, T. L. 8145, 8522, 8537
Wada, T. 3293, 6717
Waddell, C. A. 4895
Wade, N. L. 8647
Wadibhasme, S. S. 3904
Wærn, P. 7493
Wafi, M. S. 5354, 5356
Wagemakers, A. M. 6096
Wagenet, R. J. 84
Waghmode, A. P. 2424
Wagner, R. 4033
Wagner, R. E. 1480-1481, 1724, 4470
Wagner, V. T. 413
Wagoire, W. W. 2007
Waheeb, B. 7417
Wahid, A. 3083
Wahl, P. 1601
Wahl, P. G. von 3356
Wahlström, K. T. 3151
Wahyuni, W. S. 1335
Wainman, L. I. 8786
Wainwright, A. 8287
Wainwright, M. 4902
Waites, W. M. 7125
Waithaka, K. 8181
Wajid, S. M. A. 3941
Wakeham, A. J. 2546
Wakeman, R. J. 4525, 5835
Wakimoto, S. 939, 6749
Wakiyama, M. 5815
Waksman, G. 5771
Walali, L. 4712
Walbot, V. 5814
Walby, B. J. 641
Walczak, F. 220
Waldkötter, K. 8253
Wale, S. 6059
Wale, S. J. 6058, 8284
Walgenbach, J. F. 1579
Walia, S. 4939, 5689
Walker, C. 3347
Walker, D. 7653
Walker, J. 1697
Walker, J. T. 3996
Walker, J. T. S. 1818-1819, 7735
Walker, M. A. 484
Walker, W. R. 23
Walkey, D. G. A. 2208, 3739, 3786, 5359
Wall, M. M. 5346, 8582
Wall, R. E. 6296
Wallace, E. 7209
Wallace, J. B. 7259
Wallace, M. 4910
Wallace, T. P. 1139
Wallander, H. 6471
Waller, G. R. 6846
Waller, J. 6269
Waller, J. M. 1624, 4660, 6201, 6615, 7050
Wallin, G. 3163
Wallis, G. M. 2390
Wallnöfer, P. R. 8061
Wallwork, H. 293, 1980, 2043, 8857
Walmsley, A. R. 5771
Walter, J. F. 5004
Walter, M. 7095
Walters, D. R. 3522, 3576, 6450, 8256
Walther, H. 2675, 3507
Walther, U. 3566
Walther-Larsen, H. 8327
Walton, J. D. 2064, 4400, 5906
Walton, T. J. 5235
Walz, A. K. E. 4806
Wambeke, E. van 6455, 7666
Wan, C. Z. 7529
Wan, F. H. 2422
Wan, H. 4858
Wan, M. Z. 5226
Wandersman, C. 1211, 2445, 3240
Wang, A. Q. 6561
Wang, B. 5308, 6320, 7716
Wang, B. S. 494
Wang, C. 2870
Wang, C. F. 3657
Wang, C. G. 3053
Wang, C. H. 1031, 2295, 2581
Wang, C. J. K. 8161
Wang, C. L. 3653
Wang, C. R. 4182
Wang, D. 1498, 5268, 5270, 7611
Wang, D. B. 3114, 8196
Wang, F. 858
Wang, G. 4935
Wang, G. C. 1588, 1908, 8738
Wang, G. J. 923, 1465, 7406
Wang, G. L. 320, 7553
Wang, G. P. 5387
Wang, G. S. 3053
Wang, G. Y. 2252, 5188
Wang, H. G. 724, 4166
Wang, H. R. 1465
Wang, H. Y. 5387
Wang, H. Z. 5762
Wang, J. 2387, 5647, 8382
Wang, J. G. 1886
Wang, J. L. 1742, 5217, 8424
Wang, J. Q. 277
Wang, J. S. 3733, 3949, 6060, 8485
Wang, J. X. 911, 2003, 2077, 3953, 7892
Wang, K. 2292, 4473, 8567
Wang, K. C. 5785
Wang, L. 5649
Wang, L. R. 8394
Wang, L. Y. 6212
Wang, M. 2347, 6124, 7142
Wang, M. Y. 2602
Wang, P. 8163
Wang, Q. F. 328
Wang, Q. M. 328
Wang, Q. S. 1337
Wang, Q. Y. 4679
Wang, R. 6368
Wang, R. J. 4678
Wang, R. Y. 169
Wang, S. J. 1896, 6653
Wang, S. L. 8121
Wang, S. Q. 858
Wang, S. S. 7193
Wang, S. Y. 1081, 4677, 8668
Wang, S. Z. 4783
Wang, T. C. 1557, 4467-4468
Wang, T. P. 4599
Wang, W. 3189, 5547
Wang, W. Q. 8547
Wang, W. X. 2013
Wang, W. Y. 1383
Wang, X. B. 5226
Wang, X. C. 6653
Wang, X. F. 848, 7467, 8307
Wang, X. H. 7336
Wang, X. J. 3521
Wang, X. L. 351, 6760
Wang, Y. C. 905, 5926
Wang, Y. F. 5229, 5973
Wang, Y. H. 8091
Wang, Y. J. 2252
Wang, Y. M. 7591
Wang, Y. Q. 3155
Wang, Y. R. 2723
Wang, Y. S. 5735
Wang, Y. X. 5442, 7795
Wang, Y. Y. 1182
Wang, Y. Z. 8321-8322, 8775
Wang, Z. 6749, 8399
Wang, Z. G. 1545, 1782, 1887
Wang, Z. H. 3890
Wang, Z. M. 3053, 4325
Wang, Z. P. 324
Wang, Z. Q. 6760
Wang, Z. Y. 1303, 1565, 5165, 5167-5169, 5883
Wang J. Y. 3824
Wangikar, P. D. 3904
Wani, S. P. 5929
Waniska, R. D. 1442
Wankhade, R. V. 6114
Wapshere, A. J. 4034
Warakomska, Z. 5420
Ward, B. 5338
Ward, B. L. 6049, 8487
Ward, C. W. 164, 188, 192, 197, 211, 4249, 5097, 7410
Ward, E. 1026, 1931, 2345, 3100, 4757, 7418, 8247
Ward, E. R. 2606, 3932
Ward, H. P. 1010
Ward, S. 1290
Wardani, S. 2342
Wardell, J. 5070
Wardojo, S. 7874
Wareing, P. W. 1460
Wargo, P. M. 1362
Warham, E. J. 847
Warhurst, D. C. 5697
Warner, J. 6144
Warner, S. A. J. 4277
Warnick, D. 2352
Warren, G. S. 2563, 3429, 3935
Warren, H. L. 5923
Waś, M. 2154
Waseer, N. A. 2785
Washington, J. 8733
Wasnikar, A. R. 1106, 1108, 1220, 4009
Wastie, R. L. 2837
Watanabe, H. 4099, 7969
Watanabe, K. 2968, 4356, 5300, 6827, 7129, 8809
Watanabe, M. 2751, 8206, 8481, 8588, 8815
Watanabe, R. 1870
Watanabe, T. 41, 1738, 6418, 6544, 7920, 8171
Watanabe, Y. 3014, 5808, 8721
Waterhouse, P. M. 1979
Waterhouse, R. H. 947
Waterman, P. G. 1833
Waters, R. M. 5004
Watkins, B. E. 58
Watkins, C. A. 1062
Watkins, C. B. 3822
Watkins, J. E. 5586
Watkinson, A. R. 4995, 5719
Watkinson, R. J. 5035
Watling, R. 3331
Watson, A. 5412
Watson, A. K. 632, 4033
Watson, D. R. W. 4870
Watson-Craik, I. A. 3328, 4133
Watt, M. P. 7506, 8352
Watt, T. A. 930
Watters, B. S. 6148
Watterson, A. 5664
Watts, J. 795
Wauchope, R. D. 1807, 8056
Waudo, S. W. 4733
Waugh, M. 8582
Wauters, A. 7853
Way, M. J. 5936
Wayadande, A. C. 7499
Wearing, C. H. 1818-1819
Weatherby, J. 7081, 8754
Weatherby, J. C. 8756
Weathers, P. J. 4117
Webb, J. 4060
Webb, J. D. 29, 6443
Webb, L. 6
Webb, S. E. 3785
Webby, G. N. 1371
Weber, E. 2508
Weber, G. 1166
Weber, H. 4048
Weber, H. C. 712, 7295
Weber, Z. 5855, 6061
Weber-Lotfi, F. 7931
Webster, R. K. 287, 870, 2044
Wechmar, M. B. von 298
Wedderburn, R. N. 5186
Weddle, P. W. 26
Wedgwood, E. F. 3664
Weeden, N. F. 4483
Weeks, R. 1102
Weete, J. D. 2432
Weg, W. E. van de 2956, 2959
Wegner, G. 6961
Wehner, F. C. 307
Wehner, T. C. 2206, 7709-7710
Wei, C. 3994
Wei, G. 8824
Wei, G. S. 429
Wei, J. K. 3599
Wei, N. S. 1373, 2857, 5184, 8272
Wei, P. W. 2781
Wei, X. H. 4502
Wei, Y. D. 664
Wei, Z. M. 657, 5651, 6394
Wei, Z. Q. 2394, 3155
Wei, Z. S. 338
Weibelzahl, E. 1110
Weidemann, G. J. 1760, 1912, 5954
Weigel, H. J. 1496
Weil, H. 2469
Weil, J. H. 5112
Weilenmann, F. 8315
Weiler, E. W. 8253
Weir, L. C. 2390
Weir, R. G. 5627-5628
Weisbeek, P. J. 5653
Weischer, B. 3431
Weiss, B. 8651
Weiss, H. 1327, 1585, 3434, 3836
Weissenberg, K. von 4789
Weissinger, A. K. 8726
Wel, C. van der 7668
Welch, N. 6169
Weller, D. 5162
Weller, D. M. 853
Weller, F. M. 2828
Welling, B. 2089, 5892, 7475
Wellink, J. 1320, 5063, 8468
Wellmann, H. 1242, 8093
Wells, H. D. 4027
Wells, J. M. 5643
Wells, J. W. 46
Wells, L. 3903
Wetnicki, M. 2154, 5098
Weltring, K. 5013
Weltring, K. M. 215, 3728
Welty, R. E. 5233, 7570
Weltzien, H. C. 3045, 6187
Welz, H. G. 8353
Wen, Y. 7859
Wen, Y. H. 906
Wenderoth, B. 8096
Wendt-Potthoff, K. 671
Wenefrida, I. 5559
Wenner, N. G. 6301
Wennström, A. 631, 3988, 7164
Wenny, D. L. 5554
Wenstrom, J. C. 1998
Wenzel, G. 2821, 4514, 6821, 8316
Werder, J. 316
Werf, W. van der 1116
Weritz, J. 3168
Werner, M. 6528
Wernsman, E. A. 7055, 8726
Wert, S. L. van 736
Wessels, J. G. H. 628, 3378, 7314
West, C. A. 5207
West, C. P. 5133
West, D. R. 889

West, H. M. 5719
West, N. E. 7308
Westby, A. 6595
Westcot, D. M. 1939, 2584, 4240, 5813
Weste, G. 1688
Westerdahl, B. B. 6069, 6169
Westerman, P. R. 1116
Western, N. M. 4111, 5881
Westhuizen, G. C. A. van der 3405
Westhuizen, I. P. van der 8771
Weston, L. A. 8520
Westra, A. A. G. 2166
Westwood, A. R. 8776
Wetzel, T. 1056, 5401
Wevelsiep, L. 871, 4369
Wevers, J. D. A. 8707
Weyne, M. 5084
Whalen, C. S. 1733
Wheeler, B. E. J. 8250
Wheeler, R. D. 1856
Wheeler, T. A. 1513, 3475
Wheeler, W. B. 7231
Whelan, H. G. 7736
Whipps, J. M. 99, 1294, 3469, 6605, 7016, 8504, 8812
Whipps, J. N. 4174
Whisler, H. C. 5606
Whisson, S. C. 363
Whitbread, R. 5873
Whitcomb, R. F. 3459
White, A. H. 6537
White, D. G. 7500
White, F. F. 1463, 2750
White, G. P. 6141
White, J. A. 3337
White, J. F., Jr. 776, 1469, 1910, 5983, 7569, 8403
White, J. G. 2546, 3386
White, K. A. 1330, 5101
White, N. A. 1869
White, R. F. 6086, 8230
White, T. J. 775
Whitehead, D. S. 5467, 7617
Whitehead, I. M. 4231
Whitehouse, P. 6429
Whitford, F. 21
Whitham, T. G. 1849
Whitney, N. G. 6768
Whitney, R. D. 3124, 8123, 8126
Whittaker, A. 879
Whittaker, L. A. 211, 4249
Whitten, M. J. 3212, 5631
Whittle, A. M. 5438
Whitwell, A. 7000
Whitwell, T. 1176
Whyatt, R. M. 39
Wicker, L. 3879
Wicklow, D. T. 2435, 4201
Wicks, T. J. 1086, 6965
Widdowson, F. V. 2702
Widmark A. K. 5062
Widstrom, N. W. 889
Widyastuti, S. M. 7129, 8809
Wiebe, M. G. 4205
Wiebe, W. L. 6088
Wiedemann, S. 1123
Wiegand-Rosinus, M. 5675
Wiemken, A. 4135, 4772
Wiemken, V. 2497
Wienhaus, O. 7956
Wiese, M. V. 6063
Wiese, W. 5508
Wiesiollek, R. 4940
Wiesman, Z. 4179
Wiesner, J. 1730
Wietsma, W. A. 2858, 5304
Wiid, J. 4643, 7779
Wiik, L. 7470
Wijdeveld, M. M. G. 3098, 7059
Wijeratne, E. M. K. 7003
Wijk, A. J. P. van 5984
Wijkamp, I. 4253
Wijkamp, I. G. 4759
Wikins, D. E. 2689
Wilch, G. 1290
Wilcox, D. A. 657
Wilcox, G. 7193
Wilcox, H. E. 2489
Wilcox, W. F. 2933, 7763
Wilcoxson, R. D. 3563
Wild, A. 1718, 5675
Wild, B. L. 4952
Wildermuth, G. B. 272
Wildman, L. G. 8686
Wilkie, J. P. 761
Wilkinson, H. T. 3176, 4470, 5254, 6751, 7957
Wilkinson, R. 3688
Wilkinson, R. E. 3610, 8092
Wilks, D. S. 3717
Willems, A. 7198
Willems, M. 7915
Willetts, H. J. 103
Williams, D. W. 1767
Williams, G. 3918
Williams, J. G. K. 2198
Williams, N. D. 5138
Williams, P. H. 7015, 8516
Williams, R. 7081, 8754
Williams, R. E. 8756
Williams, S. 4757
Williams, S. C. 3932
Williams, S. E. 3337, 4155
Williams-Alanís, H. 1430, 1435, 1439, 3614, 3617-3619
Williamson, B. 741, 4632, 5751, 6165, 6375
Williamson, D. L. 5110
Williamson, G. 2444
Williamson, J. D. 5191
Williamson, J. W. 5189
Willingdon, T. 4143
Willis, D. K. 6787, 6789
Willis, G. A. 7217
Willis, W. G. 5134
Wills, B. 5682
Wilson, A. D. 7566
Wilson, B. A. 6513
Wilson, C. G. 2427
Wilson, C. L. 3471, 4282, 5840, 6207, 8651
Wilson, C. R. 5286, 7584
Wilson, D. L. 860
Wilson, D. M. 4407, 7836
Wilson, D. O. 6486
Wilson, D. O., Jr. 5912
Wilson, D. R. 6056
Wilson, F. D. 566
Wilson, G. W. T. 4162
Wilson, H. R. 797, 5067
Wilson, J. P. 317, 2070, 2725, 4407
Wilson, K. I. 3741
Wilson, L. L. 477
Wilson, M. 610, 3250, 3832, 4859
Wilson, R. E. 8105
Wilson, T. M. A. 1660-1661, 3097, 8198
Winans, S. C. 656, 1207, 3231-3232, 5648-5649
Winarno, H. 551
Winch, J. E. 4535
Windels, C. 4226
Windels, C. E. 251, 4235
Winde., R. S. 5621
Windham, G. L. 348
Wing, L. S. 5056
Wingfield, M. J. 1085, 1147, 1909, 1923, 3136, 3412, 4225, 4228, 4792, 4798, 5043, 5048, 5535, 6570, 7131, 7326, 7357, 7359, 7363, 7374, 7385, 8760, 8771
Wingler, A. 7292
Winiger, F. A. 2849
Winkelmann, G. 3357
Winkler, H. 4618, 5410
Winslow, M. D. 5203
Winstel, K. 3719
Winter, E. H. 8095
Winter, S. 415
Winter, W. 5130
Winterhoff, W. 3217
Winzeler, H. 2669, 8315
Winzeler, M. 2669, 8315
Wipf-Scheibel, C. 2209, 6589
Wise, R. P. 5903
Wisniewski, M. 6207, 8651
Wisniewski, M. E. 3471, 4282
Wit, P. J. G. M. de 437, 811, 2195, 4585, 5331, 6096, 7688
Witcombe, J. R. 8360
Witholt, B. 8026
Witsenboer, H. M. A. 436
Witte, L. 8549
Witz, J. 5057, 7402, 7411
Wofford, D. S. 7580
Wohlfarth, P. 6961
Wolcan, S. 2760
Wolcan, S. M. 2193, 4540
Woldeab, G. 829
Woldermariam, T. 5921
Wolf, G. 542
Wolf, I. 6033
Wolf, J. M. van der 4530
Wolf, S. 4755
Wolf, T. K. 2993
Wolfaardt, J. F. 1909
Wolfe, M. H. 3162
Wolfe, M. S. 3578, 3581, 4367
Wolffhechel, H. 746, 4603
Woloshuk, C. P. 4765
Woloshuk, S. L. 8726
Wolpert, J. A. 5425
Wolpert, T. J. 3621
Wolter, M. 6842
Wondiar, M. 2785
Wong, J. L. 6081
Wong, L. S. 1608
Wong, L. S. L. 1402
Wong, S. M. 443, 4026, 4246, 7405, 8817
Wong, W. C. 7625
Wong-urai, A. 4397
Woo, I. S. 7704
Woo, S. L. 4176
Woo, Y. H. 1021
Wood, B. A. 5458, 7625
Wood, C. S. 7083
Wood, D. W. 2702
Wood, G. A. 472
Wood, J. R. 2446
Wood, K. R. 5816
Wood, K. V. 3315
Wood, O. W. 7952-7953
Wood, P. M. 4188
Woodard, K. E. 5573, 7835
Woodburn, A. T. 5937
Woodend, J. J. 5513
Woodford, J. A. T. 2151
Woods, R. D. 1498, 5268, 6086
Woodward, S. 4113
Woolhouse, H. W. 1965
Woolston, C. J. 806, 1937
Working Party on Safety in Biotechnology of the European Federation of Biotechnology 2441
Workneh, F. 7682
Worland, A. J. 5136
World Health Organization 4068-4069, 8067
Woś, H. 8343
Woźnica, W. 6037
Wraith, M. J. 4089
Wranell, L. 8483
Wrather, J. A. 7592
Wright, A. C. 2031-2032
Wright, A. J. 3920
Wright, A. S. 4089
Wright, A. T. 1388
Wright, C. W. 5697
Wright, D. M. 7639
Wright, D. R. 3282
Wright, F. S. 8687
Wright, J. M. 6131
Wright, R. J. 4907
Wright, S. F. 6486
Wrobel, A. L. 5586
Wroth, J. M. 2094, 4458
Wu, B. Z. 5995
Wu, C. G. 2534, 2556, 6487
Wu, C. R. 2293
Wu, F. C. 4259, 5102, 8222
Wu, G. 5324
Wu, G. L. 4141
Wu, G. S. 5055, 5326
Wu, G. Y. 724, 4166
Wu, H. 1333
Wu, H. P. 6170
Wu, H. Z. 8656
Wu, J. 537, 2083
Wu, J. K. 5492
Wu, L. C. 799
Wu, M. 7405
Wu, M. L. 7837
Wu, R. Y. 8643
Wu, S. F. 6834
Wu, S. Q. 1383
Wu, S. Z. 1895, 3651
Wu, W. 4325, 4337
Wu, W. C. 6212
Wu, X. F. 2723, 5945
Wu, X. J. 1660
Wu, X. S. 1533
Wu, Y. F. 2857
Wu, Y. L. 1383, 3870
Wu, Y. S. 3053, 4182, 4325, 4337, 5140
Wu, Z. S. 2683
Wubben, J. P. 2195
Wuest, P. J. 4017
Wulf, A. 7093
Wulster, G. J. 1733
Wurch, T. 5090
Würschmidt, G. 7042
Wüthrich, B. 666
Wutke, E. B. 2812
Wutoh, J. G. 418
Wyatt, J. E. 1000
Wyatt, S. D. 2789
Wydra, K. 153
Wyk, P. S. van 1923, 3412, 7131, 7326
Wyk, P. van 7363
Wyk, P. W. J. van 4228
Wylie, S. 7584
Xavier-Filho, J. 1832
Xia, J. Q. 332, 7543
Xia, Q. H. 5431
Xia, T. 6403
Xia, X. M. 284
Xia, Y. H. 8657
Xia, Z. J. 8248
Xian, Z. L. 5443
Xiang, S. N. 908
Xiang, Y. 5184
Xiao, C. L. 3772, 8566
Xiao, F. 467
Xiao, F. H. 324, 5208
Xiao, X. W. 4249
Xiao, Y. Y. 3772, 8566
Xiao, Z. M. 8475
Xie, D. L. 3317, 7738, 8122
Xie, D. Z. 5786
Xie, G. L. 923, 1465
Xie, G. S. 417
Xie, L. H. 3435, 5949, 7528, 7967
Xie, L. J. 4412
Xie, L. Y. 3435, 7528
Xie, P. H. 4665, 8648
Xie, P. Q. 8567
Xie, Q. J. 5967
Xie, W. 8397
Xie, W. L. 4614
Xie, W. S. 6086, 8230
Xie, X. J. 7591
Xie, Y. 1337
Xie, Y. F. 3654
Xie, Y. L. 8298, 8496
Xie, Z. N. 4678
Xie, Z. Y. 5925
Xing, G. M. 997
Xiong, Z. 8726
Xu, B. 5243, 7591
Xu, C. F. 8657
Xu, C. X. 1747
Xu, F. K. 1455
Xu, F. Y. 4476
Xu, G. W. 3612
Xu, H. G. 1454-1455
Xu, J. 7490
Xu, J. H. 1549, 4189
Xu, J. L. 4408
Xu, J. R. 6521
Xu, J. T. 5767-5768
Xu, J. Y. 4350, 8176
Xu, L. H. 2428

Xu, M. Q. 7142
Xu, M. X. 8684
Xu, N. Y. 2632
Xu, R. L. 2011
Xu, R. X. 2870
Xu, T. 417, 1299, 1309, 1311, 8167
Xu, W. B. 4678
Xu, X. F. 8503
Xu, X. J. 8684
Xu, X. M. 3651
Xu, X. S. 8000
Xu, Y. 4443, 8397
Xu, Y. G. 4350
Xu, Y. Y. 905
Xu, Z. G. 8503
Xu, Z. H. 6394
Xu, Z. Z. 905
Xue, B. 5463
Xue, G. S. 5602
Xue, G. X. 5898
Xue, S. Y. 908
Xue, Y. 6316
Xuei, X. 2532
Yabutani, K. 7557
Yadav, B. 2656, 4321
Yadav, L. D. S. 80, 1814, 1816
Yadav, O. P. 5199
Yadav, R. D. S. 5310
Yadava, H. S. 5201
Yagen, B. 3318
Yaguchi, Y. 3004, 7806
Yakimov, N. I. 4833
Yakovenko, G. V. 4833
Yakovets, V. A. 8704
Yakovleva, L. M. 2443
Yakovleva, R. S. 2212
Yakubova, E. V. 4326, 5863
Yakutkin, V. I. 1630
Yakuwa, T. 2912
Yalpani, N. 233
Yamada, H. 3312
Yamada, M. 5376
Yamada, N. 74, 1339
Yamada, T. 951, 4062, 8455-8456
Yamagishi, K. 6447
Yamaguchi, H. 5397
Yamaguchi, I. 41, 3294, 6418, 6444, 6448, 6527
Yamaguchi, J. 6840
Yamaguchi, J. I. 1458
Yamaguchi, K. 6501, 7683, 8540
Yamaguchi, T. 357, 3165
Yamaguchi, Y. 5959
Yamakawa, Y. 1069
Yamaleev, A. M. 249, 2642, 2644, 3514, 5156
Yamamoto, H. 6049
Yamamoto, M. 7685
Yamamoto, T. 7970
Yamamoto, Y. 2076
Yamane, S. 8099
Yamaoka, N. 7483, 7491
Yamashita, K. 6839
Yamashita, S. 172, 1217, 3838, 5596, 6411, 8818
Yamasita, T. 5566
Yamato, H. 5941
Yamatsu, K. 1594
Yamazaki, I. 5300
Yan, D. Y. 4785
Yan, K. Y. 6521
Yan, M. Y. 6320
Yan, S. X. 1078
Yan, X. F. 6653, 7467
Yan, Z. H. 8161
Yanagisawa, A. 6262
Yanase, T. 6803
Yancheva, A. 1664
Yanchinova, Z. Ya. 4263
Yáñez Morales, M. de J. 6890
Yang, C. R. 6092
Yang, C. S. 3534
Yang, G. 5761
Yang, H. A. 3369
Yang, H. C. 4867
Yang, H. H. 3017
Yang, I. L. 6178
Yang, J. 1093
Yang, J. B. 6394
Yang, J. R. 4209
Yang, J. S. 4325, 4337, 7843, 8399
Yang, J. X. 297, 5856
Yang, L. 4239
Yang, L. G. 284
Yang, L. M. 7552
Yang, L. P. 2003
Yang, M. K. 1218
Yang, P. 907, 6412
Yang, S. 467
Yang, S. J. 4410
Yang, S. L. 3076
Yang, S. M. 5611, 6240
Yang, S. X. 4331
Yang, T. 1996
Yang, T. M. 4314
Yang, X. B. 1189, 2425, 3210, 4468, 8850
Yang, X. C. 5251
Yang, X. D. 6760
Yang, X. S. 2244
Yang, X. Y. 3425
Yang, Y. 4782, 8595
Yang, Y. M. 5167-5168, 5883
Yang, Y. R. 2428, 7991
Yang, Z. H. 7559
Yang, Z. M. 3521
Yang, Z. S. 2638
Yang, Z. W. 8298
Yano, M. 3002
Yanovskaya, E. A. 572
Yanovskiĭ, A. F. 572
Yao, C. 7318
Yao, J. M. 5926
Yao, Q. H. 5167-5169, 5883
Yao, Q. X. 3546
Yao, Y. J. 4996, 7381
Yarham, D. 7447, 8302
Yarham, D. J. 274, 7427, 7440, 8265
Yarovoĭ, V. A. 4384
Yarovoĭ, V. M. 817
Yart, A. 599-600, 1164, 5553
Yarullina, L. G. 3514
Yash Gupta 3845
Yashitola Jamir 3527
Yashoda Hegde 2310, 7890
Yashpal 2179
Yasin, M. 1108
Yasmeen 1753
Yasukawa, K. 7965
Yates, M. V. 786
Yazadzhi, P. P. 885
Yazawa, S. 4541
Ye, D. C. 5763
Ye, D. N. 5945
Ye, Q. M. 1908, 8738
Ye, X. S. 1130
Ye, Y. 2594, 8728
Ye, Y. H. 923
Ye, Y. S. 8399
Ye, Z. Y. 8089
Yee, A. R. 4388
Yeğen, O. 457, 2483
Yeh, C. C. 4386
Yeh, S. D. 1031, 2581, 3035, 5079, 8203
Yelenosky, G. 3006
Yellshetty, S. 8356
Yeoh, H. F. 5669
Yeong, C. Y. 4246, 7405
Yermolinsky, B. S. 3954
Yeshi Andnew 1993, 2014, 8289
Yess, N. J. 32
Yevmenenko, O. F. 6289
Yi, C. K. 8759
Yi, Q. H. 2011
Yi, Y. H. 4587
Yi, Z. L. 2632
Yiang, W. H. 622
Yie, Y. 3104
Yiem, M. S. 627, 2272, 3825
Yik, C. P. 6081
Yilmaz, D. 6098
Yin, F. S. 5925
Yin, G. X. 5321
Yin, W. H. 5188
Yin, Z. S. 8392
Ylimartimo, A. 1165
Yoder, K. S. 6920
Yoder, O. C. 736, 2532, 5761
Yokoyama, K. 6730, 8185
Yokoyama, T. 1457
Yon, D. A. 7258
Yoneyama, K. 6276
Yoneyama, S. 5300
Yoo, S. J. 7969
Yoon, J. T. 322
Yoon, K. F. 6285
Yoon, S. H. 3246-3247
Yorgancı, Ü. 1009, 2824
Yorinori, J. T. 6364
York, J. O. 7434
Yorston, J. M. 1574
Yoshida, H. 8150, 8160
Yoshida, K. 6838
Yoshida, M. 6850
Yoshida, S. 7882
Yoshida, T. 6262, 6867
Yoshida, Y. 172, 7676
Yoshikawa, F. T. 8255
Yoshikawa, H. 7664
Yoshikawa, N. 7159
Yoshikawa, W. 8150
Yoshimura, A. 2084
Yoshimura, E. R. 7813
Yoshimura, J. 3312
Yoshimura, Y. 6262
Yoshioka, H. 951, 2039, 8455-8456
Yoshioka, K. 2912
Yoshioka, T. 6932
Yoshizawa, A. 6262
Yoshizawa, T. 8260
You, X. J. 1336
Young, A. M. 7896
Young, C. C. 6846
Young, F. 2410
Young, J. M. 13, 4870
Young, J. P. W. 7197
Young, M. 3467
Young, T. W. K. 4996, 7381
Yu, B. J. 2181
Yu, D. F. 1284
Yu, J. L. 1338, 5308
Yu, J. S. 907
Yu, L. 7608
Yu, M. Q. 8166
Yu, P. 8737
Yu, S. H. 5252, 7704
Yu, Y. G. 7508
Yu, Y. J. 2023
Yu, Y. N. 6562
Yuan, K. P. 1745
Yuan, L. H. 4587
Yuan, X. P. 319, 911, 3143, 5972, 7540, 8380
Yuan, Z. Q. 6155, 6561
Yue, Z. Y. 6320
Yuen, G. Y. 2791, 8149
Yuen, J. E. 94, 8179
Yuen, J. M. F. 7974
Yuki, V. A. 8204
Yukita, K. 6926
Yuldashov, Zh. Yu. 3782
Yumoto, J. 5403-5404, 5566
Yun, M. S. 627, 2272
Yunis, H. 5827
Yunis, S. 1128, 2570
Yur'eva, N. A. 8505
Yurina, T. P. 6655
Yurku, A. I. 8246
Zaag, P. vander 6828
Zaayen, A. van 4871
Zabel, P. 7677
Zaccardelli, M. 3848
Zacks, J. M. 2908
Zad, S. J. 7822
Zadina, J. 986
Zadoks, J. C. 1928, 2420
Zadorozhnaya, V. A. 3951
Zafiriou, K. 6939
Zager, E. 1797
Zaghi, C. 2929
Zagórski, W. 2154
Zagula, K. R. 182
Zagurskaya, L. E. 405
Zaikin, B. A. 2939
Zaim, M. 7394
Zaiter, H. Z. 8450
Zaitlin, D. 3600
Zaitlin, M. 1658, 1669, 3099, 3430
Zajkowski, P. 2541, 4222
Žák, P. 1656
Zakaullah 3140
Zakharenkova, N. N. 4042
Zakharova, N. G. 427
Zakharyev, V. M. 1505
Zakia Bano 4019
Zakopal, J. 1409
Žáková, M. 1473
Zakrzewska-Czerwinska, J. 3735
Zalom, F. G. 6090, 7229
Zamani-Zadeh, H. R. 6672
Zambolim, L. 4479, 4735
Zambre, M. A. 5929
Zambryski, P. 1947, 2352, 7401
Zamir, D. 2190
Zamora, A. B. 4516, 5432
Zan, F. del 3737
Zang, M. 8174
Zangara, A. A. 6156
Zanten, L. F. van 2000
Zaostrovnykh, V. I. 356
Zapata, J. M. 6963
Zapata, M. 3688
Zapryanov, A. 6431
Zapryanov, S. 6682
Zaqs, Y. 6135
Zaragoza Larios, C. 6887
Zarzycki, J. 8398
Zashchita Rasteniĭ 1801
Zaslav, M. S. 6433
Zasoski, R. J. 7310
Zaspel, I. 273, 601, 5163
Zatsepina, L. V. 882
Zavala Quintana, T. E. 6804
Zavaleta-Mejía, E. 5916, 6076, 6138, 6540
Zavriev, S. K. 1332, 3743, 5081
Zawadzka, B. 5408, 5418
Zawolek, M. W. 1928
Zazimko, M. I. 2042
Zazzerini, A. 521, 3056, 4709, 6273
Zdravković, J. 8556
Zecchinelli, R. 5964
Zedaker, S. M. 4847
Zehr, E. I. 1176
Zeidan, M. 2190
Zeigler, R. 5960
Zekaria-Oren, J. 2018
Zelcer, A. 5495
Zelenina, D. A. 1344
Zelenskaya, O. B. 3530
Zeller, F. J. 1992, 2670
Zeller, W. 1582, 2935, 2957
Zel'tser, S. Sh. 6539
Zemchenkova, G. K. 1416
Zemlianoĭ, A. I. 535
Zenbayashi, R. 5363
Zeng, L. 996, 6523
Zeng, S. M. 2008, 3772
Zeng, X. P. 906
Zeng, Y. S. 8322, 8737
Zentz, W. R. 8794
Zepeda, J. 3686
Zepp, A. 30
Zepp, R. G. 85
Zerfass, K. 2349
Zerfus, V. M. 245
Zeringue, H. J., Jr. 3947
Zerucha, T. 1982
Zervakis, G. 490
Zettler, F. W. 180, 991, 1181, 8681
Zeyen, R. J. 5181, 6630, 8330
Zezyulina, G. A. 2163
Zhai, J. R. 429
Zhan, X. 1328
Zhang, A. G. 6598
Zhang, B. X. 1300, 1303, 1313, 1565-1566, 1745, 1888, 1899, 2210, 3771, 6563
Zhang, C. 3373
Zhang, C. C. 5259
Zhang, C. H. 1464
Zhang, C. L. 1336, 3555, 5520
Zhang, C. M. 2748

Zhang, C. P. 320
Zhang, C. Q. 2083
Zhang, C. S. 4394
Zhang, C. X. 2582
Zhang, D. 3546
Zhang, D. L. 3464
Zhang, D. P. 3654
Zhang, D. Y. 5171
Zhang, F. G. 1612
Zhang, F. Q. 5169-5170
Zhang, G. F. 2013, 4599
Zhang, G. M. 7716
Zhang, G. X. 3191
Zhang, G. Z. 5548
Zhang, H. F. 577
Zhang, H. J. 6280
Zhang, H. L. 5056
Zhang, H. M. 3949
Zhang, J. 1337, 3549
Zhang, J. H. 5512
Zhang, J. N. 5146, 7713
Zhang, J. R. 8399
Zhang, L. 1129, 1401, 1464, 7184
Zhang, L. B. 4599
Zhang, L. Q. 1401
Zhang, L. X. 5593
Zhang, M. 5574
Zhang, M. H. 354, 5994, 8426
Zhang, M. Q. 5735
Zhang, N. S. 8399
Zhang, P. R. 7700
Zhang, Q. 2748, 3653
Zhang, Q. F. 287, 3574
Zhang, Q. S. 6514, 8372
Zhang, R. 7852
Zhang, S. 4599
Zhang, S. C. 3806
Zhang, S. D. 6904
Zhang, S. S. 315, 1996, 5140
Zhang, S. X. 6560
Zhang, S. Z. 2008
Zhang, T. S. 5520
Zhang, W. 2680, 5878
Zhang, W. J. 3763
Zhang, W. Y. 8593
Zhang, X. B. 907, 6760
Zhang, X. C. 1612
Zhang, X. H. 3095
Zhang, X. J. 3733, 6060, 8485
Zhang, X. L. 6520
Zhang, X. P. 5250, 5379, 6320, 7713
Zhang, X. W. 3795
Zhang, X. Y. 1665, 3067
Zhang, Y. 8619
Zhang, Y. H. 5174
Zhang, Y. M. 1545, 4678
Zhang, Y. P. 1325, 4625
Zhang, Y. S. 3953, 6507, 7892
Zhang, Y. W. 1996, 5140
Zhang, Y. X. 5446
Zhang, Z. 8304
Zhang, Z. C. 8716
Zhang, Z. D. 416
Zhang, Z. F. 1336
Zhang, Z. G. 3549
Zhang, Z. H. 1383, 2748
Zhang, Z. L. 5945
Zhang, Z. M. 6280
Zhang, Z. P. 315, 5387
Zhang, Z. Q. 8424
Zhang, Z. S. 848
Zhang, Z. Y. 1464
Zhao, A. L. 6760
Zhao, F. 3104, 3155, 8728
Zhao, G. 6403
Zhao, G. D. 8334
Zhao, H. 8503
Zhao, L. S. 8793
Zhao, M. H. 3679
Zhao, S. Z. 3104
Zhao, T. C. 8567
Zhao, W. J. 5883
Zhao, X. 5251
Zhao, X. H. 5972
Zhao, X. Y. 3870
Zhao, Z. P. 6280
Zhao, Z. Y. 6155
Zhdanov, V. P. 8292
Zhdanov, V. V. 8608
Zhe, J. Z. 338
Zhemchuzhina, A. I. 259
Zheng, C. G. 2061
Zheng, G. C. 2723
Zheng, J. F. 5512
Zheng, J. M. 6060
Zheng, J. X. 6256
Zheng, X. B. 5743
Zheng, X. H. 4314
Zheng, X. L. 7804
Zheng, X. Y. 7967
Zheng, Y. L. 3574
Zheng, Y. X. 5762
Zheng, Z. 1677
Zherebtsova, L. N. 1512
Zhigalkina, T. E. 8320
Zhilkin, V. M. 2024
Zhokhova, T. P. 839
Zhong, H. M. 2210
Zhong, J. P. 1299, 8167
Zhong, Y. Q. 2011
Zhong, Z. 3657
Zhorzhesko, G. G. 535
Zhou, A. J. 1974
Zhou, G. Q. 8787
Zhou, H. J. 1403, 1545
Zhou, H. S. 3602
Zhou, J. M. 7066
Zhou, J. N. 8226
Zhou, J. P. 7066
Zhou, M. G. 3953, 8089
Zhou, R. H. 8716
Zhou, S. G. 5766
Zhou, S. T. 8656
Zhou, T. 4606
Zhou, X. G. 1896
Zhou, X. M. 6124
Zhou, X. P. 8452
Zhou, Y. H. 2083
Zhou, Z. J. 4412, 5949, 7528, 7561
Zhou, Z. Q. 8787
Zhu, C. X. 1454-1455, 3317, 7738, 8122
Zhu, F. C. 297
Zhu, G. X. 5593, 8475
Zhu, H. 3227, 7200, 8391
Zhu, H. C. 3466, 4785
Zhu, H. H. 2013
Zhu, J. G. 416
Zhu, L. H. 2086
Zhu, L. P. 319
Zhu, M. J. 5945
Zhu, P. 5763
Zhu, P. L. 1309, 1311, 1898, 5972, 7540, 8380
Zhu, Q. 4766
Zhu, S. F. 4622, 8728
Zhu, S. M. 8737
Zhu, T. X. 3373
Zhu, W. 8737
Zhu, W. G. 1221
Zhu, X. D. 923
Zhu, X. G. 6087
Zhu, Y. 3633, 6760
Zhu, Y. G. 5926
Zhu, Y. Y. 8374
Zhu, Z. 3757
Zhu, Z. W. 5229, 5973
Zhu, Z. Y. 1896, 3420, 8294
Zhuang, B. C. 7591
Zhuang, J. Y. 5611
Zhuge, G. Z. 8390
Zhuravlev, Yu. N. 7879
Ziegler, A. 5086
Ziegler, H. 8102
Ziegler-Graff, V. 3445
Zieslin, N. 6329
Zijlstra, S. 5370
Zilberstein, A. 6670
Zimand, G. 5833, 6135
Zimmat, G. 194
Zimmer, R. C. 6011
Zimmerman, M. S. 5248
Zimmern, D. 7403
Zink, P. 4788
Zinkernagel, V. 7160
Ziogas, B. N. 5758
Zipagan, F. B. 5433
Zipoli, G. 2246
Zischek, C. 1202
Zitikaitė, I. 209
Zitko, S. E. 6988
Zitter, T. A. 1547, 5359, 7714
Zitzlsperger, J. 6821
Zlochová, K. 3393
Zobel, J. F. 1835
Zobel, R. W. 4117
Zobrist, P. 8102, 8308
Zocca, A. 2335, 3922-3924
Zoecklein, B. W. 2993
Zoeten, G. A. de 3436
Zohar, D. 3047
Zoina, A. 471
Zollinger, M. 3332, 5706
Zollinger, R. K. 2119
Zook, M. N. 3812
Zoonen, P. van 5679, 6435, 8068
Zora Singh 5450
Zossi, S. 6452
Zou, F. M. 7529
Zou, Q. 2077
Zou, W. H. 8335
Zouba, A. 6196
Zouwen, P. S. van der 4056
Zreik, L. 1348
Zubenko, T. F. 7075
Zubida Bhat 1493
Zubkoff, P. L. 1805
Zueva, T. P. 6547
Zukowska, Z. 11
Zulu, J. N. 5873
Zuluaga, S. 3686
Zummo, N. 889
Zumoff, C. H. 657, 5651
Zumr, V. 4827
Zuñiga R., B. E. 4638
Zupan, J. 2352
Zupan, J. R. 7401
Zuriel, S. 6135
Zvára, J. 4604, 6134, 6901
Zwer, P. K. 1390, 2660
Zyl, F. G. H. van 4653
Zyl, W. H. van 3424

# SUBJECT INDEX


**A9248,** control, maize, storage decay 7500
**ABC,** control, *Glomerella cingulata,* mangoes 5449
***Abelmoschus esculentus*** (*see* Okras)
***Abies,*** *Nectria radicicola,* physiology 1162
***Abies alba***
damage, Switzerland 6323
decline
environmental factors 6322
France 1172, 7931
genetics 8805
Germany 1693, 8805
growth 1693
ozone 7931
physiology 1172
Switzerland 1693, 6322
*Russula ochroleuca,* mycorrhizas, morphology 6478
seedborne fungi, Germany 8804
***Abies balsamea***
acid deposition, models 3148
decline, Vermont 7904
tomato mosaic tobamovirus, spread 8784
***Abies concolor***
*Pisolithus tinctorius*
mycorrhizas
growth 1844
Oregon 1844
sulfur dioxide
California 594
susceptibility 594
***Abies grandis***
*Pisolithus tinctorius*
mycorrhizas
growth 1844
Oregon 1844
***Abies lasiocarpa***
*Glomus,* mycorrhizas, Washington 5726
sulfur dioxide
California 594
susceptibility 594
***Abies pindrow***
damping off
control 2399
Himachal Pradesh 2399
***Abies sachalinensis***
*Racodium therryanum*
Hokkaido 6300
susceptibility 6300
***Abrus precatorius,*** plant extracts, antiviral agents 6886
***Absidia glauca***
laboratory tests, plant oils 8119
mushrooms
contaminants 8835
spawn 8835
***Abutilon***
*Discosia aquatica,* Madhya Pradesh 5779
*Phomopsis abutilonis,* Madhya Pradesh 5779
**Abutilon mosaic bigeminivirus**
*Abutilon pictum,* detection 1941
molecular genetics
DNA 8218
nucleotide sequences 194, 8218
***Abutilon pictum,*** abutilon mosaic bigeminivirus, detection 1941
***Abutilon theophrasti,*** *Gibberella baccata,* biological control 3208
***Acacia albida,*** *Glomus clarum,* mycorrhizas, drought resistance 2527
***Acacia auriculiformis,*** *Corticium salmonicolor,* Kerala 5542
***Acacia farnesiana***
mycorrhizas
growth 4982
Mexico 4982
***Acacia leucophloea,*** *Hapalophragmiopsis ponderosa,* tissue culture 3977
***Acacia nilotica***
*Glomus clarum,* mycorrhizas, drought resistance 2527
***Acacia nilotica*** *cont.*
*Glomus mosseae*
mycorrhizas
nitrogen fixation 5732
phosphorus 5732
plant extracts
antifungal agents 6462, 6464
antiviral agents 7057
***Acacia saligna***
*Uromycladium tepperianum*
biological control 7993
South Africa 7993
***Acanthocereus colombianus,*** *Glomus manihotis,* mycorrhizas, Nematoda 5724
***Acanthus ilicifolius,*** *Glomerella cingulata,* West Bengal 8843
**Acari,** contamination, cultures, fungi 6509
***Acaulospora***
asparagus, mycorrhizas 8145
electron microscopy 6488
*Populus deltoides,* mycorrhizas 4976
soil, mycorrhizas 4156, 8145
soyabeans, mycorrhizas 1863
spore germination 7305
taxonomy 727
survival 7305
***Acaulospora bireticulata,*** maize, mycorrhizas 4146
***Acaulospora laevis***
*Capsicum,* mycorrhizas 92
dunes, mycorrhizas 1858
pastures, mycorrhizas 97
spore germination 7305
survival 7305
*Trifolium subterraneum,* mycorrhizas 8142
***Acaulospora longula,*** soil, mycorrhizas 5735
***Acaulospora mellea,*** soil, mycorrhizas 5735
***Acaulospora morrowae***
*Aspalathus linearis,* mycorrhizas 4167
control, *Rhizoctonia solani,* tomatoes 438
*Otholobium hirtum,* mycorrhizas 4167
tomatoes, mycorrhizas 438
***Acaulospora muricata***
*Leucaena leucocephala,* mycorrhizas 4977-4978
pigeon peas, mycorrhizas 6483
***Acaulospora myriocarpa,*** horticultural crops, mycorrhizas 7304
***Acaulospora rehmii,*** pigeon peas, mycorrhizas 4975
***Acaulospora rugosa,*** sweet potatoes, mycorrhizas 7298
***Acaulospora scrobiculata***
soil, mycorrhizas 5735, 7307
*Trifolium pratense,* mycorrhizas 5722
***Acaulospora spinosa,*** horticultural crops, mycorrhizas 7304
***Acaulospora trappei***
spore germination 7305
survival 7305
***Acca sellowiana***
*Botrytis cinerea*
enzymes 5457
toxins 5457
*Pestalotiopsis psidii*
Italy 3885
storage 3885
***Acer buergerianum***
*Pseudomonas syringae* pv. *aceris*
Japan 7109
taxonomy 7109
***Acer macrophyllum,*** fungi, biological control 5612
***Acer palmatum,*** *Colletotrichum acutatum,* Connecticut 5558
***Acer pseudoplatanus***
*Apiognomonia veneta*
control 2388
Washington 2388
diseases
diagnosis 3979
thermography 3979
***Acer pseudoplatanus*** *cont.*
*Gnomonia,* varietal reactions 3122
***Acer rubrum***
air pollution, growth 1696
*Septoria aceris,* Florida 1703
***Acer saccharum***
acid rain
Indiana 7929
nutrients 7929
*Armillaria calvescens*
decline 7923
New York 7923
decline
Ontario 3143
remote sensing 3143
sulfur dioxide, photosynthesis 7110
***Achlya***
rice
control 5952
Louisiana 5952
***Acholeplasma axanthum,*** cytochemistry, enzymes 4262-4263
***Acholeplasma granularum,*** cytochemistry, enzymes 4262-4263
***Acholeplasma laidlawii,*** cytochemistry, enzymes 4262-4263
**Acid deposition,** damage, forests 4793, 8767
**Acid fog,** activity, *Picea abies* 7121
**Acid rain**
activity
*Acer rubrum* 1696
*Acer saccharum* 7929
*Betula pubescens* 5533
*Colletotrichum graminicola,* sorghum 3610
*Cornus florida* 7929
forests 582, 3130
*Liriodendron tulipifera* 1696
maize 1426
*Melampsoridium betulinum, Betula pendula* 3134
*Picea rubens* 604, 3164
*Pinus sylvestris* 5533
*Pinus taeda* 1715, 2395
*Prunus serotina* 1696
*Quercus rubra* 1696
damage
*Picea abies* 8803
*Pinus echinata* 8798
***Acidovorax avenae,*** taxonomy 7198
***Acidovorax konjaci,*** taxonomy 7198
***Acinetobacter,*** antagonism, plant pathogens 5003
***Acremoniella atra,*** oats, Latvia 826
***Acremonium***
*Festuca,* detection 5984
*Festuca arizonica*
Colorado 7166
evolution 7166
New Mexico 7166
nucleotide sequences 7166
Texas 7166
*Festuca arundinacea,* breeding 8412
*Festuca glauca,* insects 6333
*Festuca longifolia,* insects 6333
*Festuca rubra* subsp. *commutata,* insects 6333
Gramineae
detection 8403
life cycle 8403
molecular genetics 8411
reviews 8413
taxonomy 8403
grasses, distribution 1469
*Lolium multiflorum,* breeding 8412
*Lolium perenne*
breeding 8412
detection 5984
genetic engineering 2756
insects 7566
Washington 7566
melons
control 7721, 7723
rootstocks 7723

*Acremonium cont.*
melons *cont.*
screening 8590
Spain 5366, 7711, 7721
varietal reactions 5366, 7711, 7723
***Acremonium alternatum***
antagonism, *Botrytis cinerea* 5829
control, *Botrytis cinerea*, tomatoes 6100
***Acremonium coenophialum***
*Agrostis hiemalis*
endophytes 7569
insects 7569
water relations 7569
*Brachyelytrum erectum*, host range 6753
*Dactylis glomerata*
control 2761
France 2761
*Elymus villosus*, host range 6753
*Elymus virginicus*, host range 6753
*Festuca arundinacea*
alkaloids 1467
carbohydrates 3663
chitinase 6752
detection 341
diseases 4444, 4448, 7570
ecology 8402
economics 8402
endophytes 3348, 5978
fertilizers 343
genetic transformation 7572
immunodiagnosis 5980
insects 4444, 6333
interactions 344
mycorrhizas 3348
nutrients 8408
nutritive value 5979
physiology 7567
seeds 341, 344, 4448
toxins 343, 5980
water stress 3663, 8408
Gramineae, Japan 3661
*Hystrix patula*, host range 6753
***Acremonium implicatum*, hyperparasitism**, *Puccinia coronata* 6632
***Acremonium lolii***
Gramineae, Japan 3661
*Lolium perenne*
Australia 8410
diseases 8410
ecology 8402, 8410
economics 8402
insects 4447, 6333, 7573
Nematoda 5985
toxins 5232, 8407
***Acremonium obclavatum*, hyperparasitism**, *Puccinia arachidis* 6252
***Acremonium recifei***
tomatoes
environmental factors 5337
storage 5337
***Acremonium roseolum***
*Colocasia antiquorum*
storage 3742
Uttar Pradesh 3742
***Acremonium strictum*, peas**, inoculum density 5273
***Acremonium typhinum***
*Festuca pratensis*
endophytes 2090
Switzerland 2090
***Acremonium uncinatum***
*Festuca pratensis*
endophytes 2090
Switzerland 2090
**Acridine orange**, activity, rice tungro virus, rice 4414
***Actinidia arguta***
*Pseudomonas syringae* pv. *actinidiae*
Japan 8639-8640
pathogenicity 8639
symptoms 8639
*Pseudomonas syringae* pv. *syringae*
Japan 8639
pathogenicity 8639
symptoms 8639
***Actinidia deliciosa*** (*see* Kiwifruits)
***Actinidia kolomikta*, *Pseudomonas syringae*** pv. *actinidiae*, Japan 8640
**Actinomycetales**
control
*Corticium salmonicolor*, *Hevea brasiliensis* 5523
*Phellinus noxius*, *Hevea brasiliensis* 5525
*Pyrenophora teres*, barley 6685
plants, roots 6413
**Actinorhizal plants**
fungi
fatty acids 4853
root nodules 4853
**Acylanilides**, activity, plant pathogenic fungi 6451
**Acylon**, control, *Pseudoperonospora cubensis*, melons 3800
***Acyrthosiphon pisum***
transmission
faba beans, viruses 7602
zucchini yellow mosaic potyvirus 5351
***Adhatoda vasica*, plant extracts**, antifungal agents 6464
**Adjuvants**
activity
*Botrytis cinerea* 7239
crops, diseases 8101
*Septoria apiicola* 7239
legislation 8077-8078
Canada 8080
UK 6427
USA 8080
properties 6426, 8076
usage 8079
***Aecidium chlorophyti-glauci*, Liliaceae**, Maharashtra 4007
***Aecidium crini*, Amaryllidaceae**, Maharashtra 4007
***Aecidium dipcadi*, Liliaceae**, Maharashtra 4007
***Aegilops***
diseases
lectins 249
resistance 249
*Pseudocercosporella herpotrichoides*
breeding 3497
resistance 3497
*Ustilago phrygica*, taxonomy 861
***Aegilops cylindrica***
brome mosaic bromovirus
reservoir hosts 1190
Russia 1190
***Aegilops kotschyei***
*Puccinia striiformis*
Himachal Pradesh 262
pathotypes 262
***Aegilops squarrosa***
*Erysiphe graminis*, varietal reactions 860
*Gaeumannomyces graminis* var. *tritici*, breeding 6666
*Puccinia graminis*, varietal reactions 860
*Puccinia recondita*, varietal reactions 860
*Pyrenophora tritici-repentis*, varietal reactions 860
***Aegle marmelos*, plant oils**, antifungal agents 1834
***Aeromonas***, antagonism, fungi 8147
***Aeschynomene virginica***
*Colletotrichum gloeosporioides* f.sp. *aeschynomene*
Arkansas 3210
biological control 1189, 2425, 3210
spore dispersal 2425
transmission 1189
vectors 3210
fungi, biological control 8853
*Glomerella cingulata*, biological control 5619
**Afghanistan**, plant diseases 4037
**Aflatoxins**
*Arachis* 5472
cereals 2629
cotton 3947
*Echinochloa crus-galli* 3630
fodder crops 1466
groundnuts 3066, 3907, 5472, 7033, 7831, 7836
Indian mustard 2178, 3755
maize 3604, 4280, 4396-4397, 7506-7507, 8352, 8354
*Panicum miliaceum* 3630
**Aflatoxins** *cont.*
*Panicum trypheron* 3630
*Paspalum scrobiculatum* 3630
*Pennisetum americanum* 3629
rice 7441, 7536
*Setaria italica* 3630
sorghum 7516
sunflowers 4280
wheat 7441
**Africa**
bananas, *Mycosphaerella fijiensis* 5435
*Cercospora* 125
citrus, *Cercospora angolensis* 125
coffee, *Glomerella cingulata* 6269, 7050
cotton, bacteria 575
cowpeas, viruses 4501
integrated pest management 2600
maize, viruses 8345
*Musa*, *Mycosphaerella fijiensis* 5435, 8644
pesticides
legislation 2458
usage 2458
*Phaseolus vulgaris*, *Phaeoisariopsis griseola* 1492
*Stylosanthes*, *Glomerella cingulata* 6759
**African cassava mosaic bigeminivirus**
cassava
breeding 6831
genetic engineering 8499
planting date 6832
reviews 1527
spacing 6832
transmission 6832
Uganda 6832
Zaire 6831
molecular genetics
coat proteins 3440
DNA 795
infectivity 795, 1328
replication 1328
transmission 3440
**Afugan**, fungicide tolerance, *Sphaerotheca fuliginea* 4601
***Afzelia africana***
mycorrhizas
infection 2495
Senegal 2495
***Agaricus bisporus*** (*see* Mushrooms)
***Agaricus bitorquis***
*Cladobotryum verticillatum*
control 5603
environmental factors 5603
*Pseudomonas cepacia*, symptoms 5605
***Ageratum conyzoides***
ageratum yellow vein virus
characteristics 4026
Singapore 4026
okra (bhendi) yellow vein mosaic bigeminivirus, Indian Punjab 4025
plant extracts, antifungal agents 2481
rhizosphere fungi, Andhra Pradesh 634
***Ageratum houstonianum*, plant oils**, antifungal agents 1834
**Ageratum yellow vein virus**
*Ageratum conyzoides*
characteristics 4026
Singapore 4026
**Agrimycin 17**, control, *Erwinia amylovora*, *Crataegus monogyna* 4859
***Agrobacterium***
activity, *Gaeumannomyces graminis*, wheat 5163
boysenberries, genetic transformation 6946
control
beet necrotic yellow vein furovirus, sugarbeet 2332
*Fusarium oxysporum* f.sp. *lini*, flax 7078
*Polymyxa betae*, sugarbeet 2332
identification 6393, 7183
laboratory tests
antibiotics 4055
fungicides 4055
*Lotus*
genetic transformation 3235
roots 3235
molecular genetics, plasmids 7184
production, antibiotics 2998
raspberries, genetic transformation 6946

***Agrobacterium* cont.**
taxonomy
biovars 7186-7187
fatty acid esters 7187
strains 7186
tobacco, genetic transformation 2352
***Agrobacterium radiobacter*, control,** *Agrobacterium tumefaciens*, peaches 471
***Agrobacterium rhizogenes***
molecular genetics
gene expression 3944, 7185
nucleotide sequences 7185
octopine 6396
tobacco
gene expression 3108, 3944
genetic transformation 564, 8735
***Agrobacterium rubi***
hosts 8029
phenotypes 8029
***Agrobacterium tumefaciens***
biochemistry
enzymes 2444
lipopolysaccharides 1783
carrots
host parasite relationships 413, 3233
infection 413
proteins 3233
cereals
phenolic compounds 6394
virulence 6394
chrysanthemums
characteristics 1736
strains 1736
detection, DNA probes 3236
grapes
control 2258, 2998, 5428
enzymes 6193
Germany 6192
host parasite relationships 488, 7787
immunodiagnosis 7786
Italy 6192
molecular genetics 6193
rootstocks 6192
South Africa 4653
strains 3861
Switzerland 6192
testing 8636
varietal reactions 8636
virulence 6193
yield losses 4653
hosts 8029
*Kalanchoë daigremontiana*
host parasite relationships 1741
plant growth regulators 1741
molecular genetics
DNA 4913
enzymes 655
gene expression 1207-1208, 1784, 3230-3232, 3234, 4915-4916, 5647-5648, 7190
gene transfer 7190
genetic transformation 8028
nucleotide sequences 1206, 3231, 3237, 4915-4916, 5647, 5649
octopine 5649, 6396
pathogenicity 655
plasmids 1205-1206, 4915, 6395, 7189
virulence 1207-1208, 1784, 3234, 4057, 4916-4917
*Nicotiana glauca*, genetic transformation 5646
ornamental plants
latent infections 7125
tissue culture 7125
peaches
biological control 471
Italy 471
peas, proteins 1499
phenotypes 8029
*Pinus radiata*
galls 3156
host parasite relationships 3156
plants
gene expression 1784
host parasite relationships 1784
*Populus*
France 4811
plasmids 4811
potatoes, antagonists 2822
***Agrobacterium tumefaciens* cont.**
proteins 4913
*Pseudomonas fluorescens*, antagonism 2447
*Pseudomonas glumae*, antagonism 6407
rice
biological control 6742
gene expression 4443
serology 7188
soil
genetic engineering 3387
plasmids 3387
tobacco
genetic transformation 565
host parasite relationships 7888
trees
Pakistan 5650
strains 5650
virulence, phenolic compounds 4914
***Agrobacterium vitis***
molecular genetics
octopine 8030
plasmids 8030
***Agropyron*, *Ustilago hypodytes*, Iran 1470**
***Agropyron elongatum* (*see Elymus elongatus*)**
***Agropyron repens* (*see Elymus repens*)**
***Agrostis avenacea***
*Clavibacter toxicus*
New South Wales 7571
vectors 7571
***Agrostis hiemalis***
*Acremonium coenophialum*
endophytes 7569
insects 7569
water relations 7569
***Agrostis palustris* (*see Agrostis stolonifera* var. *palustris*)**
***Agrostis stolonifera*, *Magnaporthe poae*,** Florida 6334
***Agrostis stolonifera* var. *palustris***
*Pythium torulosum*
pathogenicity 4452
soil flora 4452
*Rhizoctonia solani*
biological control 1728
control 1728
*Sclerotinia homoeocarpa*
control 345
soil amendments 345
**Air pollution**
activity
*Apiognomonia veneta*, *Platanus acerifolia* 7924
forest trees 8763
forests, mycorrhizas 4123
lichens 3204
ornamental plants 7950
*Picea abies* 605, 8802
*Picea rubens* 3164
*Pinus taeda* 7941
damage
chestnuts 3171
Coniferae 7930
*Cupressus* 3167
*Delonix regia* 1160
forest trees 1149, 2373
forests 4793, 7088, 8751
guavas 4688
mangoes 3024
*Picea abies* 1171, 5550
*Picea rubens* 7942
*Pinus sylvestris* 4843, 5550, 8797
*Quercus ilex* 4804
street trees 7956
**Air spora**
Central Asia, cereals 4217
China, rice 1455
Europe, *Erysiphe graminis* 865
Germany
*Didymella* 3356
*Fusarium* 3356
India 221
sorghum 312
Italy, rice 3639
Karnataka, coffee 546
Kazakhstan, cereals 4217
sampling 148
Spain 3358
Sweden 4193
***Akaropeltopsis*, avocados, control 2280**
***Alangium salviifolium*, plant extracts,** antifungal agents 2733
***Albizia falcataria***
*Corticium salmonicolor*
Philippines 5546
symptoms 5546
***Albizia julibrissin***
*Haploravenelia japonica*, Korea Republic 8759
*Heterosporium albizziae*, Korea Republic 8759
***Albizia lebbek***
*Camptomeris albizziae*
control 8780
Haryana 8780
Uttar Pradesh 8780
diseases
Haryana 8780
Uttar Pradesh 8780
*Fusarium*, Puerto Rico 5544
*Phomopsis medax*, Madhya Pradesh 5779
***Albugo candida***
*Amaranthus viridis*
Manipur 2871
pathogenicity 2871
*Brassica*, estimation 4554
Indian mustard
breeding 2179
control 1537, 5313
India 5310
screening 5310
seeds 4555
symptoms 3752
preservation 1316
***Albugo occidentalis***
apples
control 4611
plant oils 4611
spinach, estimation 2872
***Alcaligenes*, antagonism, *Fusarium oxysporum* 1293**
**Alders (*see Alnus*)**
**Aldicarb**
control
*Corticium rolfsii*, groundnuts 3070
*Mycosphaerella berkeleyi*, groundnuts 3070
sugarbeet, viruses 7853
**Aldimorph**
control
*Erysiphe graminis*, barley 1407
*Mycosphaerella musicola*, bananas 3868
**Alfalfa (*see* Lucerne)**
**Alfalfa mosaic alfamovirus**
characteristics 4243
chickpeas, Myanmar 2133
grain legumes, New Zealand 8423
immunology 804
lucerne
Canada 4454
strains 346
Turkey 346
USA 4454
*Medicago murex*, yield losses 925
*Medicago polymorpha*
persistence 1476
seeds 1476
spread 1476
yield losses 925, 1476
potatoes, Mexico 6812
serology 800
tobacco, movement proteins 5501
tomatoes
Japan 8547
serology 8547
*Trifolium pratense*, serology 8547
*Trifolium repens*, epidemiology 4457
*Trifolium subterraneum*
Australia 2095
yield losses 925
**Algae**
*Pythium marinum*
host parasite relationships 5606
infection 5606
shrubs
control 1722
Washington 1722
trees
control 1722
Washington 1722

**Algeria**
*Pinus*
*Pythium diclinum* 7117
*Pythium tracheiphilum* 7117
soil, *Fusarium oxysporum* f.sp. *lini* 5033
*Terfezia arenaria* 6503
***Alkanna tuberculata***
*Ramularia inae*
Romania 771
taxonomy 771
***Alliaria petiolata***, turnip yellow mosaic tymovirus, Czech Republic 7985
***Allium***
*Phytophthora porri*, isolates 3749
*Pyrenochaeta terrestris*, selection 4542
*Sclerotium cepivorum*
control 3744
screening 4546
***Allium ascalonicum*** (*see* Shallots)
***Allium cepa*** (*see* Onions)
***Allium chinense***
*Fusarium*
insects 7660
Japan 7660
***Allium fistulosum***
mycorrhizas, Honshu 7296
*Puccinia allii*
forecasting 2174
Honshu 2174
***Allium porrum*** (*see* Leeks)
***Allium roylei***
*Peronospora destructor*
breeding 5304
genetics 5304
***Allium sativum*** (*see* Garlic)
***Allium tuberosum***, *Erwinia carotovora* subsp. *carotovora*, Japan 6841
**Almonds** (*Prunus dulcis*)
almond brown line and decline
California 513
mycoplasma-like organisms 513
apple mosaic ilarvirus
Italy 7012
varietal reactions 7012
mycoplasma-like organisms
Germany 1055
transmission 1055
*Myrothecium verrucaria*, India 3403
*Phytophthora cambivora*, screening 1086
*Polystigma ochraceum*
control 6222
Israel 6222
prune dwarf ilarvirus
California 8255
Italy 7012
varietal reactions 7012
prunus necrotic ringspot ilarvirus
California 8255
Italy 7012
varietal reactions 7012
storage decay, Jammu and Kashmir 7808
*Tranzschelia discolor*
control 4690
Himachal Pradesh 4690, 7809
varietal reactions 7809
*Verticillium dahliae*
California 5835
mulching 5835
soil solarization 5835
viruses
detection 4607
India 4607
Italy 4689
***Alnus***
*Glomerella cingulata*, Iran 1707
*Melanconium alni*, characteristics 3144
*Melanconium marginalis*, characteristics 3144
***Alnus acuminata***
*Glomus intraradices*
mycorrhizas
growth 2506
nitrogen fixation 2506
plant extracts, antifungal agents 1701
*Rosellinia bunodes*, Costa Rica 587
***Alnus cordata***
*Cryphonectria parasitica*, Italy 4795
*Erwinia*
Italy 6299
symptoms 6299
***Alnus crispa***
mycorrhizas
afforestation 7285
Alaska 7285
inoculum 7285
***Alnus glutinosa***
*Erwinia*
Italy 6299
symptoms 6299
***Alnus incana***, *Cytospora*, Oregon 8768
***Alnus nepalensis***
*Melampsoridium hiratsukanum*, Nepal 8778
*Passalora alni*, Nepal 8778
***Alnus rubra***
fungi, biological control 5612
mycorrhizas
ecology 3329
nodulation 3329
Oregon 3329
***Alocasia indica***
*Stenella alocasiae*
taxonomy 750
West Bengal 750
***Aloe barbadensis***, *Erysiphe polygoni*, India 3403
**Alpine fir** (*see Abies lasiocarpa*)
***Alpinia galanga***, plant oils, antifungal agents 1834
***Alstroemeria***
root rots
Alberta 5584
varietal reactions 5584
viruses, Italy 3190
**Alstroemeria mosaic potyvirus**, *Alstroemeria*, Italy 3190
**Alstroemeria virus**, *Alstroemeria*, Italy 3190
***Alternanthera philoxeroides***, diseases, Haryana 8859
***Alternanthera pungens***, diseases, Haryana 8859
***Alternanthera sessilis***, *Alternaria pimpriana*, West Bengal 752
***Alternaria***
air spora, Sweden 4193
barley, Latvia 826
*Bromus inermis*, USSR 2755
*Coriandrum sativum*, varietal reactions 4884
cotton
environmental factors 6278
honeydew 6278
toxins 3954
*Eichhornia crassipes*, Pakistan 8845
flax, genetics 7077
Indian mustard
breeding 8513
varietal reactions 8513
laboratory tests
antifungal agents 3290
plant extracts 3290, 6465
linseed
Germany 3045
UK 5464
yield losses 5464
maize, Germany 880
ornamental plants
pathogenicity 5564
Ukraine 5564
*Passiflora*, taxonomy 7346
pears, varietal reactions 6932
peas, Ukraine 952
*Pennisetum americanum*
Georgia 4407
seeds 4407
toxins 4407
*Phaseolus vulgaris*
control 5262, 6780
São Paulo 5262, 6780
seeds 2798
varietal reactions 6780
*Pinus*
biological control 601
seeds 6312
Uttar Pradesh 6312
*Populus*
Himachal Pradesh 7919
Jammu and Kashmir 4810
potatoes, Russia 4518
radishes, seeds 2866
***Alternaria*** *cont.*
rape
Denmark 7816
rotations 7816
rice, Honshu 5210
spore dispersal, aerodynamic properties 4196
sunflowers
seeds 3894
toxins 3894
*Thunbergia*, Florida 4864
*Thymus*
Austria 5609
Spain 5609
toxins 6537
vegetables
hosts 6612
Romania 6612
wheat
control 8287
UK 8287
***Alternaria alternata***
activity, *Sclerotinia sclerotiorum*, *Phaseolus vulgaris* 1494
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
*Amaranthus*, Mexico 5975
apples
fungicide tolerance 1575
Kyushu 1575
storage 2961
toxins 8612
varietal reactions 8612
aubergines
plant extracts 3762
postharvest decay 3762
*Avicennia alba*, West Bengal 8843
barley, breeding 3563
beetroots, toxins 7659
*Brassica napus*
seeds 999
Uttar Pradesh 999
*Capsicum*
fruit 5346
plant extracts 3762
plant growth stage 5346
postharvest decay 3762
chickpeas
control 378, 968
Maharashtra 968
chrysanthemums, Italy 3186
cotton, antibiotics 3952
culture media 5022
*Cyclamen persicum*
Poland 6347
seeds 6347
dates, biochemistry 7004
*Datura stramonium*, toxins 7999
*Eichhornia crassipes*
biological control 5614
Egypt 5614
*Eucalyptus citriodora*, Karnataka 4794
*Euphorbia esula*, Nei Menggu 5611
faba beans
Hungary 8435
seeds 7605, 8435
groundnuts
breeding 7839
varietal reactions 7839
India 3402
Indian mustard, seeds 4555
laboratory tests
captan 686
fungicides 7241
homeopathic drugs 6511
phosphonates 2466
plant extracts 2481
plant oils 8119
sulfur 686
thiram 686
zineb 686
*Lemna minor*, toxins 6363
linseed, seeds 6237
lupins
seeds 1478
storage 1478
maize, Germany 880
mandarins, toxins 7797
mangoes
control 7801

***Alternaria alternata*** *cont.*
mangoes *cont.*
Israel 5448
relative humidity 5448
South Africa 7801
melons
control 3808
physiology 8593
storage 3808
ornamental plants, Ukraine 5564
pawpaws
control 3037
storage 3037
pears
control 5397
France 6151
histopathology 8618
induced resistance 2968
Italy 3816
toxins 8618-8619
persimmons, control 3882
*Phaseolus coccineus*, seeds 4478
*Phaseolus vulgaris*
Colombia 2794
control 7610
Ontario 7610
*Phyllanthus emblica*
Jammu and Kashmir 6218
postharvest decay 6218
physiology, melanins 4788
pigeon peas
control 3706
Maharashtra 3706
seeds 3706
*Populus*, Uttar Pradesh 4809
potatoes
control 8495
isolates 8494
Pakistan 8494-8495
rape
Italy 2294
toxins 2294
rice
discoloration 5954
endophytes 3640
vectors 5954
Solanaceae
isoenzymes 1884
isolates 1884
*Solanum nigrum*, toxins 7999
*Sonneratia apetala*, West Bengal 8843
soyabeans
freezing 358
Iowa 358
seeds 358, 365
spore germination 6512
strawberries
histopathology 8628
host parasite relationships 7777
toxins 6949, 7777, 8628
varietal reactions 6949
sunflowers
environmental factors 3895
Indian Punjab 3895
seeds 3895
tobacco
breeding 7052
integrated control 8730
Taiwan 8730
tomatoes
control 6105
India 6105
roots 8560
seeds 4579
selection 8246
susceptibility 436
toxins 436, 5338, 6867, 8559
ultrastructure 8560
varietal reactions 6867
volatile compounds 6506
toxins 110, 2540
reviews 4204
triticale, Moldova 875
*Vigna umbellata*
control 6026
seeds 6026
wheat
control 2646
detection 2646
Egypt 5137
ergosterol 1385

***Alternaria alternata*** *cont.*
wheat *cont.*
Ethiopia 8275
seeds 1385, 2646, 5137, 8275
***Alternaria amaranthii***, *Amaranthus*, Nepal 5976
***Alternaria brassicae***
biochemistry, enzymes 4200
*Brassica*
selection 6231
toxins 6231
*Brassica napus*
seeds 999
Uttar Pradesh 999
*Brassica oleracea*
seeds 3754
Victoria 3754
Chinese cabbages, environmental factors 996
Indian mustard
India 5310
screening 5310
seeds 4555
mustard, antagonists 1281
physiology
strains 6523
temperature 6523
rape
control 2297, 8671
selection 6231
toxins 6231
UK 2297, 8671
sarson, varietal reactions 1540
***Alternaria brassicicola***
*Brassica*
biological control 3751
environmental factors 998
spore germination 998
storage 3751
*Brassica napus*
seeds 999
Uttar Pradesh 999
*Brassica oleracea*
seeds 3754
Victoria 3754
cabbages, antagonists 4553
*Pseudomonas fluorescens*, antagonism 3751, 4553
rape
control 2297
UK 2297
sarson
breeding 426
induced mutations 426
*Serratia*, antagonism 4553
*Serratia liquefaciens*, antagonism 3751
*Serratia plymuthica*, antagonism 3751
*Streptomyces griseoviridis*, hyperparasitism 4175
***Alternaria carthami***
safflower
culture 3055
Iran 7822
seeds 7822
spore germination 3055
***Alternaria cassiae***
*Cassia obtusifolia*
biological control 3208, 7994, 8187
induced resistance 2432
phytoalexins 7994
conidia 4236
production 8187
sporulation, environmental factors 6369
***Alternaria chrysanthemi***, biochemistry, toxins 1885
***Alternaria citri***
citrus, storage 4667
lemons
biological control 7428
storage 7428
tangelos, control 7799
***Alternaria crassa***
conidia 4236
*Datura stramonium*, biological control 1760, 3208
sporulation, environmental factors 6369
***Alternaria cucumerina***
melons
environmental factors 452
models 452, 1033
yield losses 1033

***Alternaria cucumerina*** *cont.*
*Momordica cochinchinensis*, West Bengal 752
watermelons
Rajasthan 5375
varietal reactions 5375
***Alternaria cyamopsidis***
guar
crop growth stage 1500
varietal reactions 2818
***Alternaria dauci***
carrots
control 7631
fungicide tolerance 412
strains 412
varietal reactions 412, 1525
fungicide tolerance 3384
***Alternaria dianthicola***
IMI distribution maps 3389
preservation 3415
***Alternaria eichhorniae***, *Eichhornia crassipes*, West Bengal 754
***Alternaria helianthi***
safflower, control 2310
sunflowers
environmental factors 3895
Indian Punjab 3895
Italy 4709
Karnataka 525
seeds 525, 3895
toxins 4706, 7819
varietal reactions 7820
***Alternaria limicola***
limes
control 6990
Mexico 6990
***Alternaria linicola***
linseed
control 3891-3893
seeds 6237
UK 8673
***Alternaria longipes***
tobacco
control 8715
Nematoda 8715
***Alternaria longissima***
*Capsicum*
seeds 7702
Uttar Pradesh 7702
ornamental plants, Ukraine 5564
***Alternaria macrospora***
cotton
control 1673
Israel 1673, 7893
models 573
monoculture 7893
virulence 7893
yield losses 573
***Alternaria mali***
apples
environmental factors 2226
enzymes 7739
epidemiology 3824
infection 3824
mites 1579
models 2226
nitrogen 3825
North Carolina 1579, 2226
temperature 3825
***Alternaria padwickii***
rice
discoloration 5954
reviews 6736
seeds 6712
vectors 5954
***Alternaria passiflorae***, *Passiflora*, West Bengal 754
***Alternaria pimpriana***, *Alternanthera sessilis*, West Bengal 752
***Alternaria porri***
garlic
susceptibility 8507
varietal reactions 8507
onions
control 3750, 4541, 7662
Haryana 3750
Mexico 7662
Sri Lanka 4541
varietal reactions 7662
West Bengal 754
toxins 3371

***Alternaria radicina***
*Brassica napus*
seeds 999
Uttar Pradesh 999
carrots
antagonists 2169
biological control 6608
storage 2169
*Trichoderma viride*, antagonism 2169
***Alternaria raphani***
*Brassica napus*
seeds 999
Uttar Pradesh 999
radishes
biological control 2869
environmental factors 2869
sulfur dioxide 5834
***Alternaria ricini***, *Ricinus communis*, control 2326
***Alternaria sesami***
sesame
seeds 1106
West Bengal 752
***Alternaria solani***
biochemistry, enzymes 4583
fungicide tolerance, mancozeb 5024
laboratory tests
geraniol 8040
plant extracts 1835, 6462
lucerne, biological control 2615
potatoes
control 7631
Cuba 2846-2847
environmental factors 2846
estimation 2165
induced resistance 3730
Israel 2165
life cycle 2846
Pakistan 7633
plant growth stage 2847
screening 2164
toxins 7646
varietal reactions 3730
Solanaceae
isoenzymes 1884
isolates 1884
tomatoes
biological control 2615
control 6105, 6862, 6872, 7631, 7687
environmental factors 5337
genetics 8553-8555
India 6105
Mexico 6872
Ontario 6862
selection 8246
storage 5337
Uttar Pradesh 8236
varietal reactions 6862
***Alternaria state***, ornamental plants, Ukraine 5564
***Alternaria tenuis*** *(see Alternaria alternata)*
***Alternaria tenuissima***
*Brassica napus*
seeds 999
Uttar Pradesh 999
groundnuts, physiology 8685
India 3402
laboratory tests, plant extracts 77
maize, Germany 880
*Nephrolepis biserrata*, Karnataka 1186
ornamental plants, Ukraine 5564
soyabeans
Karnataka 2784
yield losses 2784
wheat
enzymes 4312
Ethiopia 8275
seeds 4312, 8275
***Alternaria triglochinicola***, *Triglochin procera*, Australia 7987
***Alternaria triticina***, biochemistry, enzymes 4583
***Alternaria zinniae***
IMI distribution maps 3389
*Tagetes erecta*, physiology 4865
*Xanthium italicum*, biological control 7995
*Xanthium occidentale*, biological control 7995
*Zinnia*, West Bengal 752
**Aluminium phosphide**, fungicide residues, cereals 4304
***Alysidiopsis yunnanensis***
*Eupatorium odoratum*
taxonomy 5783
Yunnan 5783
***Alyxia ruscifolia***
*Uromyces alyxiae* var. *australiensis*
Queensland 5608
taxonomy 5608
***Amanita austroviridis***, *Eucalyptus*, mycorrhizas 1269
***Amanita basiorubra***, *Eucalyptus*, mycorrhizas 1269
***Amanita luteivolvata***, *Eucalyptus*, mycorrhizas 1269
***Amanita muscaria***
culture media, growth 4138
*Picea abies*, mycorrhizas 4966, 7292
*Pinus patula*, mycorrhizas 6476
***Amanita pantherina***, *Pinus*, mycorrhizas 4972
***Amanita regalis***, biochemistry, enzymes 1258
***Amaranthus***
*Alternaria alternata*, Mexico 5975
*Aposphaeria amaranthi*, taxonomy 1912
diseases
Nepal 5976
yield losses 5976
*Macrophoma*, Mexico 5975
*Peronospora amaranthi*, Himachal Pradesh 3392
*Streptomyces*
biological control 8000
toxins 8000
***Amaranthus caudatus***, amaranthus mosaic virus, physiology 4566
**Amaranthus leaf mottle potyvirus**
ecology 166
taxonomy 166
**Amaranthus mosaic virus**, *Amaranthus caudatus*, physiology 4566
***Amaranthus viridis***
*Albugo candida*
Manipur 2871
pathogenicity 2871
**Amaryllidaceae**, Uredinales, Maharashtra 4007
***Amelanchier alnifolia***, *Gymnosporangium nelsonii*, testing 3000
**American hop latent carlavirus**, hops, New Zealand 4886
***Amerosporium polynematoides***, *Ficus benjamina*, India 3401
**Amino acids**, activity, pepper mild mottle tobamovirus, *Capsicum* 4592
***Ammobium alatum***
mycoplasma-like organisms
Alberta 4861
symptoms 4861
**Ammonium ferrous sulfate**, activity, rice tungro virus, rice 4414
***Ammophila breviligulata***
*Glomus lamellosum*
mycorrhizas
Ontario 726
taxonomy 726
***Amomum subulatum***
plant oils, antifungal agents 1834
*Rhizoctonia solani*
Sikkim 4883
symptoms 4883
*Robillarda sessilis*, Sikkim 4012
***Amomum villosum***
*Glomerella cingulata*
Guangxi 8824
hosts 8824
symptoms 8824
***Amoora rohituka***
*Pseudocercospora amoorae*
taxonomy 749
West Bengal 749
***Amorpha fruticosa***
*Mycovellosiella passaloroides*
China 5787
taxonomy 5787
***Amorphophallus bulbifer***, plant extracts, antifungal agents 6718
***Amorphophallus rivieri***, *Pseudomonas pseudoalcaligenes* subsp. *konjaci*, control 5303
***Ampelomyces***, production, antibiotics 462
***Ampelomyces quisqualis***, control, *Sphaerotheca pannosa*, peaches 7757
***Amphiporthe leiphaemia***
*Quercus robur*
decline 7093
Germany 7093
***Amplicephalus sonorus***, transmission, sorghum stunt mosaic nucleorhabdovirus 2710
**Ampropylfos**
activity, *Aphanomyces* 4101
development 7242
***Anacardium occidentale*** *(see* Cashews)
***Ananas comosus*** *(see* Pineapples)
***Anchusa italica***
*Puccinia recondita*
Morocco 1764
reservoir hosts 1764
**Andean potato mottle comovirus**, molecular genetics, RNA 5084
***Andropogon scoparius*** *(see Schizachyrium scoparium)*
***Anethum sowa***, *Leveillula taurica*, India 4021
***Angelica***
*Fusarium*, transmission 3191
*Trichoderma atroviride*, taxonomy 767
***Angiopteris evecta***, *Corticium rolfsii*, pathogenicity 8820
**Angola**
citrus, *Cercospora angolensis* 125
coffee, *Glomerella cingulata* 5491
cotton, *Fusarium oxysporum* f.sp. *vasinfectum* 7076
***Anguina***, transmission, *Clavibacter toxicus* 7571
**Anilazine**
control
*Alternaria longipes*, tobacco 8715
tomatoes, diseases 6872
***Anisogramma anomala***
hazelnuts
Oregon 1623
spread 1623
varietal reactions 5462
***Annona cherimola***, *Cylindrocladium colhounii*, control 5456
***Annona muricata***, viruses, Ceara 5451
***Annona squamosa***
*Botryodiplodia theobromae*, Pakistan 3131
*Cylindrocladium colhounii*, control 5456
**Annual reports** *(see* Reports)
**Antec FFS**, soil treatment 3920
***Anthemis nobilis*** *(see Chamaemelum nobile)*
**Anthraquinone**, seed treatment, wheat 3516
***Anthurium***, *Xanthomonas campestris* pv. *diffenbachiae*, Jamaica 2410
***Anthurium andreanum***, *Phytophthora citrophthora*, São Paulo 4005
***Anthyllis cytisoides***
*Glomus*
mycorrhizas
growth 6484
soil types 6484
*Glomus fasciculatum*
mycorrhizas
growth 2523
phosphorus 2523
**Antibiotic 120**
control
crops, diseases 3317
*Fusarium oxysporum* f.sp. *niveum*, watermelons 4599
**Antibiotics**
activity
*Botrytis cinerea* 4959-4960
*Pseudomonas syringae* pv. *lachrymans* 6137
*Thanatephorus sasakii* 8122
control
*Agrobacterium tumefaciens*, grapes 2998
*Catharanthus roseus*, mycoplasma-like organisms 5108
*Colletotrichum capsici*, *Capsicum* 2204

**Antibiotics** *cont.*
control *cont.*
*Erysiphe graminis*, wheat 2013
*Phoma asparagi*, asparagus 429
*Podosphaera leucotricha*, apples 462
*Rhizoctonia solani*, maize 2067
*Sclerotinia sclerotiorum*
cucumbers 448
rape 3890
*Valsa mali*, apples 464, 7738
*Xanthomonas campestris* pv. *phaseoli*, *Phaseolus vulgaris* 369
**Antioxidants**, activity, *Pyrenophora avenae*, oats 2704
***Antirrhinum***
*Puccinia antirrhini*
genetic transformation 1963
resistance 1963
***Antirrhinum majus***
*Puccinia antirrhini*
genetics 4863
induced mutations 4863
**Antiviral agents**
activity
potato X potexvirus, tobacco 7053
potatoes, viruses 6807
control, *Capsicum*, viruses 8577
***Aphanocladium album***
antagonism, *Nectria haematococca* 4178
hyperparasitism, *Puccinia graminis* 843
***Aphanomyces astaci***, laboratory tests, ampropylfos 4101
***Aphanomyces cochlioides***
sugarbeet
biological control 3469
control 5489
forecasting 543
Sweden 543
UK 5489
***Aphanomyces euteiches***
laboratory tests, ampropylfos 4101
lucerne
isolates 7577
Quebec 7577
USA 7579
virulence 7579
peas
biological control 4484
Netherlands 6792
Ukraine 952
varietal reactions 8453
***Aphanomyces raphani***
Chinese cabbages
control 2181
Korea Republic 2181
***Aphanomyces stellatus***, laboratory tests, ampropylfos 4101
***Aphelenchoides***, interactions, *Botryodiplodia theobromae*, dates 8658
***Aphelenchus***, interactions, *Fusarium*, *Zingiber officinale* 3196
***Aphelenchus avenae***, control, *Rhizoctonia solani*, cucumbers 3796
**Aphidoidea**
transmission
barley yellow dwarf luteovirus 819-820, 4248, 4299
cauliflower mosaic caulimovirus 6591
clover yellow vein potyvirus 935
marrows, viruses 6129
potato Y potyvirus 563, 7638, 8482
potyviruses 162
rhabdoviruses 2586
soybean mosaic potyvirus 354-355
sugarbeet, viruses 7853
turnip mosaic potyvirus 7407
zucchini yellow mosaic potyvirus 5069
**Aphids** (*see* Aphidoidea)
***Aphis citricola***, transmission, papaya ringspot potyvirus 7002
***Aphis craccivora***
transmission
blackeye cowpea mosaic potyvirus 8467
cucumber mosaic cucumovirus 8467
potato leaf roll luteovirus 5287
safflower mosaic virus 7821
***Aphis fabae***
transmission
faba beans, viruses 7602
***Aphis fabae*** *cont.*
transmission *cont.*
potato Y potyvirus 6120
***Aphis gossypii***
transmission
cucumber mosaic cucumovirus 4593
papaya ringspot potyvirus 4684, 7002
potato leaf roll luteovirus 5287
safflower mosaic virus 7821
zucchini yellow mosaic potyvirus 4594, 7706, 8586
***Aphis nerii***, transmission, papaya ringspot potyvirus 4684, 7002
***Aphis spiraecola***, transmission, papaya ringspot potyvirus 4684
**Aphyllophorales**
*Eucalyptus*, Zimbabwe 2379
*Pinus*, Zimbabwe 2379
taxonomy, identification 4221
trees, Portugal 3128
***Apiognomonia errabunda***
chestnuts
genetics 3133
strains 3133
*Fagus sylvatica*
genetics 3133
strains 3133
*Quercus*
genetics 3133
strains 3133
***Apiognomonia quercina***
*Quercus petraea*
Austria 7094
endophytes 7094
***Apiognomonia veneta***
*Acer pseudoplatanus*
control 2388
Washington 2388
*Platanus*
control 2388
Italy 7955
Washington 2388
*Platanus acerifolia*
air pollution 7924
drought 7924
UK 5543
***Apiospora camptospora***, maize, India 7509
***Apiospora montagnei***, laboratory tests, plant extracts 1833
***Apis mellifera***
transmission
biological control agents 1041
*Erwinia amylovora* 7729
*Pseudomonas fluorescens* 7729
***Apisporina morbosa***, plums, genetics 6941
***Apium graveolens*** (*see* Celery)
***Apocynum cannabinum***
*Stagonospora apocyni*
biological control 635
toxins 635
***Aposphaeria***
*Quercus robur*
decline 7093
Germany 7093
***Aposphaeria amaranthi***, *Amaranthus*, taxonomy 1912
**Apparatus**
assays, soil biology, *Rhizoctonia solani* 620
forecasting, *Plasmopara viticola*, grapes 2991
sampling, air spora 148
***Appendiculella cunninghamiae***
*Cunninghamia lanceolata*
China 5781
taxonomy 5781
**Apple chlorotic leafspot virus**
apples, indicator plants 5387
apricots
Italy 2236-2237, 2969
symptoms 2236
*Chenopodium quinoa*, purification 1347
molecular genetics
nucleotide sequences 3451
RNA 3451
plums, varietal reactions 6157
**Apple mosaic ilarvirus**
almonds
Italy 7012
varietal reactions 7012
apples, breeding 7731
**Apple mosaic ilarvirus** *cont.*
apricots, Italy 2237
**Apple stem grooving capillovirus**
apples, indicator plants 5387
apricots, Japan 3838
**Apple stem pitting virus**
apples, RNA 3815
pears, RNA 3815
**Apple stem pox virus**, apples, indicator plants 5387
**Apples** (*Malus pumila*)
*Albugo occidentalis*
control 4611
plant oils 4611
*Alternaria alternata*
Kyushu 1575
toxins 8612
varietal reactions 8612
*Alternaria mali*
environmental factors 2226
enzymes 7739
epidemiology 3824
infection 3824
mites 1579
models 2226
nitrogen 3825
North Carolina 1579, 2226
temperature 3825
apple chlorotic leafspot virus, indicator plants 5387
apple mosaic ilarvirus, breeding 7731
apple stem grooving capillovirus, indicator plants 5387
apple stem pitting, viruses 3815
apple stem pox virus, indicator plants 5387
bitter pit
Croatia 6929
forecasting 6929
storage 6929
*Botryosphaeria berengeriana*
environmental factors 6923
inoculum 6923
*Botryosphaeria dothidea*
control 4613
environmental factors 6924-6925
enzymes 5391
forecasting 4613
fruit 6149
isolates 6149
models 4613
North Carolina 6149
varietal reactions 6925
*Botryosphaeria obtusa*
environmental factors 6925
varietal reactions 6925
*Botryosphaeria ribis*, Beijing 8611
*Botrytis cinerea*
biological control 6150
Kyushu 1575
postharvest decay 6150
storage 2220
calyx-end necrosis, calcium 2227
*Coprinus psychromorbidus*
British Columbia 1581
inoculum 1581
storage 1581
*Corticium salmonicolor*
environmental factors 4615
Himachal Pradesh 4615
*Cylindrocarpon heteronema*, detection 4616
*Diplocarpon mali*
Kyushu 1575
resistance 4614
diseases
breeding 4610
California 7727
control 1040, 2936, 3819-3820
France 2937
Georgia 3817
integrated control 456, 459, 1573, 2937, 3817, 5386, 7727
integrated pest management 2936
Italy 456, 1573
Japan 7730
Massachusetts 459
USA 3819
Washington 1040
*Erwinia amylovora*
antibiotics 7, 2933

**Apples** *cont.*
*Erwinia amylovora cont.*
biological control 1041, 1049, 7741
control 8613-8614
environmental factors 7742
epiphytes 1049
forecasting 1572, 7740
France 3828
host parasite relationships 4058, 8615
Michigan 7, 1048
models 8614
New York 2933
Pennsylvania 8613-8614
reviews 6913
transmission 7740
varietal reactions 1048, 3827
vectors 7729
*Erwinia herbicola*
environmental factors 7742
host parasite relationships 8615
fungi
control 6918
Italy 6918
fungicide residues
determination 6435, 6454, 7246, 8105
Himachal Pradesh 6919
storage 2219
varietal reactions 2219
fungicides, pollen germination 6916
*Gloeodes pomigena*
control 6914, 7732
Himachal Pradesh 7732
North Carolina 6914
rain 6914
*Glomerella cingulata*
control 4036
Malawi 4036
*Glomus mosseae*, mycorrhizas, replant disease 460
*Leucostoma*
control 1578
Iran 1578
mycoplasma-like organisms, DNA probes 8234
mycorrhizas, South Africa 7302
*Nectria cinnabarina*, Malawi 6147
*Nectria galligena*
antagonists 1047
biological control 1047
control 2958, 6148
environmental factors 4612
postharvest decay 1047
temperature 2959
UK 2958, 6148
varietal reactions 2959
*Pantoea agglomerans*
antibiotic resistance 2933
New York 2933
*Penicillium expansum*
alkaloids 4617
biological control 2225
postharvest decay 2225
storage 2220
pesticide residues, Germany 2472
*Pezicula alba*, storage 2220
*Pezicula malicorticis*
antagonists 1047
biological control 1047
biology 1577
control 463
hosts 463
postharvest decay 1047
symptoms 463
Washington 463, 1577
*Phomopsis*
environmental factors 6925
varietal reactions 6925
*Phytophthora cactorum*
biological control 2957, 6922
control 3823, 6922
quality 3822
storage 3822
*Phytophthora syringae*, storage 2930
*Podosphaera leucotricha*
breeding 6143
control 462, 2939-2940, 2942-2943, 2954, 3821, 4611, 5390, 6450, 6915, 6917, 6921, 8609-8610
epidemiology 1045
Europe 8610
fungicide tolerance 8610

**Apples** *cont.*
*Podosphaera leucotricha cont.*
genetics 2956
Germany 1045
Kazakhstan 2955
Mexico 6915, 6921
plant extracts 2941
plant oils 4611
reviews 2943, 6920
spore germination 5389
spraying equipment 2942
UK 2954
postharvest decay, biological control 2222
proliferation
characteristics 6593
mycoplasma-like organisms 3818, 6593
resistance 3818
rootstocks 3818
*Pseudomonas*
antibiotic resistance 2933
New York 2933
*Pseudomonas fluorescens*, vectors 7729
*Pseudomonas syringae* pv. *tabaci*, host parasite relationships 4058
pudding spot
control 3829
Tasmania 3829
*Pythium acanthicum*, control 2960
*Pythium ultimum*, spore germination 7316
replant disease
aetiology 1574, 2938
bioassays 1050
biological control 460, 5393
British Columbia 5393
control 1050, 4618
nematodes 2938
soil fungi 2938
scald
control 3830, 4609, 6927
peroxides 6928
South Africa 6927
storage 4609, 6927-6928
*Schizothyrium pomi*
control 6914, 7732
Himachal Pradesh 7732
North Carolina 6914
rain 6914
storage decay
books 4608
control 1046, 1580, 2221, 2932, 2961, 8607
integrated control 3826
Latvia 1580
Spain 2932
varietal reactions 5392
storage disorders, varietal reactions 5392
tomato ringspot nepovirus
Nematoda 3814
USA 3814
*Ulocladium chartarum*
control 2962
storage 2962
*Valsa*, infection 6926
*Valsa mali*
antibiotics 7738
biological control 7738
control 464
*Venturia inaequalis*
ascospores 2945, 5388
biology 461
breeding 6143, 7734
cell walls 1044
control 2939-2940, 2942-2943, 2948, 4611, 5388, 6145, 6915, 6917, 7735, 7737
enzymes 2949
epidemiology 2953
flavanols 2931
forecasting 2944, 2947, 2953
fungicide tolerance 1576, 7736
Germany 134, 7734
Himachal Pradesh 5388
histochemistry 2931
host parasite relationships 2949
Hungary 2950
hypersensitivity 6146
integrated control 2950-2951
Italy 2944

**Apples** *cont.*
*Venturia inaequalis cont.*
Kyushu 1575
Mexico 6915
models 134, 2944, 2952, 7737
New Hampshire 6145
New York 6145
New Zealand 7736
Norway 2947, 2953
Nova Scotia 1576, 6144
Ontario 6144
plant extracts 2941
plant oils 4611
Poland 2951
races 7734
reviews 2943, 7733
screening 2946
selection 8608
spore dispersal 6144
spraying equipment 2942
varietal reactions 1042-1043
Yugoslavia 2945
viruses
detection 4607
elimination 1571, 1584
grafting 1584
India 4607
testing 1571
witches' brooms
breeding 7731
mycoplasma-like organisms 7731
**Apricots** (*Prunus armeniaca* and *P. mume*)
apple chlorotic leafspot virus
Italy 2236, 2969
symptoms 2236
apple stem grooving capillovirus, Japan 3838
apricot chlorotic leaf roll
mycoplasma-like organisms 7748
varietal reactions 7748
*Armillaria mellea*, Italy 2228
decline, aetiology 4621
diseases
Czechoslovakia 2229
Italy 2228
reviews 2228
fungicide residues 6939
*Leucostoma cinctum*
biological control 2230, 2971
varietal reactions 7749
*Monilinia*, Italy 2228
*Monilinia laxa*
epidemiology 2238
Italy 2238
varietal reactions 7749
mycoplasma-like organisms
control 2233
Europe 2232
Germany 1055
transmission 1055
*Nectria radicicola*
cold storage 6141
Ontario 6141
plum pox potyvirus
coat proteins 3836
detection 5401
Europe 2232
genetic transformation 1585, 3836
induced resistance 1585
Italy 1054, 2969
Spain 2234
testing 2235
varietal reactions 2234-2235, 3837
Yugoslavia 3834
Protozoa, histopathology 4621
prune dwarf ilarvirus, Italy 6156
prunus necrotic ringspot ilarvirus
Italy 2236, 2969
symptoms 2236
*Pseudomonas syringae* pv. *morsprunorum*
France 2239
inoculum 2239
*Pseudomonas syringae* pv. *syringae*
biological control 2971
control 8621
France 2239
frost injury 2240
Hungary 2241
ice nucleation 2241
inoculum 2239

**Apricots** *cont.*
*Pseudomonas syringae* pv. *syringae cont.*
varietal reactions 8621
*Pseudomonas viridiflava*
France 2239
inoculum 2239
*Sphaerotheca pannosa*
epidemiology 2238
Italy 2238
*Stigmina carpophila*, varietal reactions 7749
*Verticillium albo-atrum*, Italy 2228
*Verticillium dahliae*
California 5835
Italy 2228
mulching 5835
soil solarization 5835
viruses
detection 2231
Egypt 2231
Italy 2237
varietal reactions 2231
***Arabidopsis thaliana***
bacteria
genetics 4230
host parasite relationships 4230
cauliflower mosaic caulimovirus
ecotypes 1938
host parasite relationships 1938
movement 4242
resistance 4242
fungi
genetics 4230
host parasite relationships 4230
*Plasmodiophora brassicae*
histopathology 115
life history 115
*Pseudomonas syringae*
host parasite relationships 3241
molecular genetics 3241
*Pseudomonas syringae* pv. *maculicola*
ethylene 1201
host parasite relationships 1201
molecular genetics 1787
*Pseudomonas syringae* pv. *syringae*
hypersensitivity 4063
phytoalexins 4063
*Pseudomonas syringae* pv. *tomato*
ethylene 1201
host parasite relationships 1201
*Sclerotinia sclerotiorum*, host parasite relationships 7349
tomato golden mosaic bigeminivirus, host parasite relationships 2583
turnip crinkle carmovirus
host parasite relationships 2582
varietal reactions 2582
*Xanthomonas campestris*
molecular genetics 4066
virulence 4066
*Xanthomonas campestris* pv. *campestris*
ethylene 1201
host parasite relationships 1201
**Arabis mosaic nepovirus**
*Alstroemeria*, Italy 3190
cucumbers, Latvia 6132
grapes, detection 3853
hops
Germany 7982
New Zealand 4886-4887
reinfection 7982
transmission 4887, 7983
molecular genetics, satellite RNA 8231
monoclonal antibodies 5078
*Petunia hybrida*
enzymes 1730
replication 1731
raspberries, immunodiagnosis 1589
***Arachis***
*Aspergillus flavus*, toxins 5472
*Mycosphaerella arachidis*, genetic resources 3067
*Mycosphaerella berkeleyi*, genetic resources 3067
*Puccinia arachidis*, genetic resources 3067
viruses, elimination 7027
***Arachis hypogaea*** (*see* Groundnuts)
***Aralia***, *Botryodiplodia theobromae*, Pakistan 3131
***Aralia elata***, soft rot, susceptibility 5561
***Araucaria araucana***
mycorrhizas
Chile 5702
morphology 5702
***Arbutus menziesii***
*Piloderma bicolor*
mycorrhizas
biochemistry 6504
ultrastructure 6504
*Pisolithus tinctorius*
mycorrhizas
biochemistry 6504
ultrastructure 6504
Pyrenomycetes, British Columbia 7988
***Arbutus unedo***, *Laccaria amethystina*, mycorrhizas, ultrastructure 4967
***Areca catechu*** (*see* Arecanuts)
**Arecanuts** (*Areca catechu*)
*Phyllosticta arecae*, phenolic compounds 1087
*Phytophthora arecae*
control 3043
environmental factors 3043
forecasting 3043
**Argentina**
citrus, yeasts 502
fodder beet, *Pleospora betae* 4540
fruit trees, diseases 4946
grapefruits, citrus tristeza closterovirus 6983
*Libocedrus chilensis*
diseases 6325-6326
mycorrhizas 4998
maize, *Spiroplasma kunkelii* 2708
*Mentha arvensis*
*Erysiphe* 7157
*Puccinia menthae* 7157
nectarines, *Taphrina deformans* 1060
*Pennisetum clandestinum*, *Bipolaris zeae* 2760
soil, *Fusarium equiseti* 6675
spinach beets, *Pleospora betae* 4540
squashes, *Xanthomonas campestris* pv. *cucurbitae* 1038
sugarcane, *Ustilago scitaminea* 7042
sunflowers, *Puccinia helianthi* 2303
tomatoes, *Pseudomonas corrugata* 6111
wheat
*Fusarium equiseti* 6675
*Mycosphaerella graminicola* 4346
**Armenia**
figs, *Botrytis cinerea* 7009
persimmons, *Botrytis cinerea* 7009
pomegranates, *Botrytis cinerea* 7009
***Armillaria***
plants, reviews 1362
soil
metal ions 4213
USA 4213
taxonomy, nomenclature 1916
tropical crops, characteristics 1305
***Armillaria borealis***
*Pinus*
high altitude 3152
Norway 3152
***Armillaria calvescens***
*Acer saccharum*
decline 7923
New York 7923
forest trees
clones 7086
New Hampshire 7086
***Armillaria gemina***
forest trees
clones 7086
New Hampshire 7086
***Armillaria limonea***, *Pinus radiata*, biological control 7939
***Armillaria lutea***, carpophores, development 7331
***Armillaria luteobubalina***, ecosystems, reviews 1778
***Armillaria mellea***
apricots, Italy 2228
*Chamerion angustifolium*, reservoir hosts 4035
culture 7332-7333
*Grifola umbellata*, symbiosis 5768
*Hypomyces odoratum*, antagonism 581
oil palms
control 2311
***Armillaria mellea*** *cont.*
oil palms *cont.*
Papua New Guinea 2311
physiology, enzymes 6524
*Picea abies*, Belarus 4845
*Pinus contorta*, reservoir hosts 4035
*Pinus radiata*, Spain 596
*Quercus*
Russia 7091
sewage sludge 1255
Slovakia 6293
rhizomorphs 7332-7333
trees
biological control 581
reviews 1687
*Trichoderma harzianum*, antagonism 581
ultrastructure 5767
***Armillaria novae-zelandiae***, *Pinus radiata*, biological control 7939
***Armillaria obscura***
forest trees
clones 7086
identification 3124
New Hampshire 7086
Ontario 3124
*Pinus koraiensis*, Russia 3154
***Armillaria ostoyae***
carpophores, development 7331
*Chamerion angustifolium*, reservoir hosts 4035
forest trees
control 2390
stump removal 2390
genetics, ploidy 3368
isoenzymes 3368
laboratory tests
culture media 2535
phenolic compounds 2535
physiology, enzymes 6524
*Pinus contorta*
control 2390
reservoir hosts 4035
stump removal 2390
*Pinus sylvestris*
histochemistry 3151
infection 3151
wounds 3151
*Pseudotsuga menziesii*
control 2390
stump removal 2390
soil bacteria, antagonism 4791
***Armillaria tabescens***, carpophores, development 7331
***Artemisia dracunculus***, *Erysiphe artemisiae*, Iran 1748
***Artemisia tridentata***, mycorrhizas, growth 5725
***Artemisia vulgaris***
plant extracts, antifungal agents 2481
plant oils, antifungal agents 1834
***Arthrinium arundinis***, barley, Montana 872
**Artichoke latent potyvirus**, globe artichokes, yield losses 6085
**Artichoke yellow ringspot nepovirus**
faba beans
Greece 943
seeds 943
***Artocarpus heterophyllus***, copper, deficiency 3005
***Ascochyta***
bamboos, Philippines 4890
grapes
control 6970
Mexico 6191, 6970
groundnuts, Cuba 6251
peas, control 7614
*Thymus*
Austria 5609
Spain 5609
***Ascochyta caricae***, pawpaws, postharvest decay 7806
***Ascochyta fabae***
faba beans
epidemiology 2114
France 2114
Hungary 8434-8435
Poland 1489
rotations 1489
seeds 7606, 8434-8435
Tunisia 1479
varietal reactions 2114

***Ascochyta fabae* f.sp. *lentis***
lentils
control 4488, 7618
Saskatchewan 4488
seeds 4488
spread 4488
***Ascochyta hyalospora***
*Chenopodium album*, toxins 2426
weeds, toxins 2426
***Ascochyta imperfecta*** (*see Phoma medicaginis*)
***Ascochyta phaseolorum***
*Sechium edule*, storage 3793
*Vigna mungo*
control 3708
Himachal Pradesh 3708
***Ascochyta pinodes*** (*see Mycosphaerella pinodes*)
***Ascochyta pisi***
laboratory tests, fatty acids 4198
peas
breeding 2803
control 7615
integrated pest management 2129
reviews 6794
physiology, enzymes 4198
***Ascochyta rabiei***
chickpeas
control 378, 2809, 6801, 7621
culture media 3703
epidemiology 2135
genetics 955
Himachal Pradesh 6799
hosts 2140
Idaho 2135
inoculation 3704
Iran 6801
Italy 4496
Pakistan 2138
phytoalexins 215
races 2138
reviews 959
screening 3702, 4491-4492, 6016, 6018, 6799
sowing date 2137
Syria 5274
teleomorph 2135
toxins 4495
Tunisia 1479
Turkey 2137
varietal reactions 2137-2138, 4496, 5274, 6801
Washington 2135
laboratory tests, fungicides 380
lucerne, pathogenicity 2140
peas, pathogenicity 2140
*Trifolium*, pathogenicity 2140
***Ascochyta sorghina***, sorghum, varietal reactions 1441
**Ascomycotina**
Australasia, nomenclature 694
Brazil 772
growth, reviews 5016
sexual reproduction, reviews 3364
taxonomy, morphology 1920
Ukraine 6557
**Ash trees** (*see Fraxinus*)
**Asia**
cereals, Hyphomycetes 4217
maize, diseases 7495
mulberries, dwarf 5107
pesticides
regulation 7216
usage 5937, 7216
rice
diseases 5937, 5944
yellow dwarf 5107
sesame, phyllody 5107
weeds, biological control 632
**Asomate**, control, *Dothiorella gregaria*, *Populus* 8775
***Aspalathus linearis***, *Acaulospora morrowae*, mycorrhizas, ecology 4167
**Asparagus**
*Acaulospora*
mycorrhizas
Michigan 8145
plant age 8145
asparagus 2 ilarvirus
epidemiology 8522
Italy 8521
**Asparagus** *cont.*
asparagus 2 ilarvirus *cont.*
Michigan 8522
seeds 8521
varietal reactions 8521
yield losses 8522
asparagus 1 potyvirus
epidemiology 8522
Italy 8521
Michigan 8522
seeds 8521
varietal reactions 8521
yield losses 8522
bacteria, Italy 3486
*Cercospora asparagi*, Colombia 2878
decline
New Zealand 430
reviews 430
diseases
seed germination 8536
soil treatment 8536
*Fusarium*
control 1007
Italy 8533
seed treatment 8532
Spain 1007
*Fusarium oxysporum*
Connecticut 8527, 8529
control 3760, 8524, 8527
fertilizers 8527
France 3760
Italy 8524
Michigan 8529, 8534
mixed infections 2879
Netherlands 6854
replanting 6854
transmission 3760
vegetative compatibility groups 8529
*Fusarium oxysporum* f.sp. *asparagi*
biological control 8528
control 8526, 8528
host parasite relationships 8525
Italy 8523
Mexico 8526
mycorrhizas 8537
Netherlands 432
phosphorus 8537
Taiwan 8528
toxins 8525
USA 8526
varietal reactions 8523
*Gibberella fujikuroi*
biological control 8528
Connecticut 8527, 8529
control 3760, 8526-8528
fertilizers 8527
France 3760
Italy 8523, 8533
Mexico 8526
Michigan 8529, 8534
Taiwan 8528
transmission 3760
USA 8526
varietal reactions 8523
vegetative compatibility groups 8529
*Gigaspora*
mycorrhizas
Michigan 8145
plant age 8145
*Glomus*
mycorrhizas
Michigan 8145
plant age 8145
*Glomus fasciculatum*
mycorrhizas
diseases 8537
phosphorus 8537
*Helicobasidium purpureum*, mixed infections 2879
pathogenesis-related proteins, genetic transformation 4277
*Phoma asparagi*
China 5321
control 429, 5321
epidemiology 5321
pathogenicity 6087
*Phomopsis*
control 7671
epidemiology 7670
Honshu 7670-7671
**Asparagus** *cont.*
*Phomopsis asparagi*
environmental factors 1545
survival 1545
*Phytophthora cryptogea*, screening 431
*Phytophthora megasperma* var. *sojae*, screening 431
*Puccinia asparagi*
control 428, 8530
Italy 8530
Washington 428
replant disease
chemicals 8538
Netherlands 432
New Zealand 430
reviews 430
*Rhizoctonia solani*, Kyushu 1544
seed treatment, seed germination 8535
*Stemphylium vesicarium*, South Africa 7669
*Zopfia rhizophila*
Poland 8531
roots 8531
**Asparagus 2 ilarvirus**
asparagus
epidemiology 8522
Italy 8521
Michigan 8522
seeds 8521
varietal reactions 8521
yield losses 8522
***Asparagus officinalis*** (*see* Asparagus)
**Asparagus 1 potyvirus**
asparagus
epidemiology 8522
Italy 8521
Michigan 8522
seeds 8521
varietal reactions 8521
yield losses 8522
***Aspergillus***
antagonism, *Xanthomonas campestris* pv. *citri* 2269
apples, storage 2221
biochemistry, enzymes 7337
*Canavalia*, seeds 6030
fodder plants, storage 1466
groundnuts
detection 7033
drought 5478
resistance 4717
seeds 4717, 7033, 8691
storage 8691
toxins 7033
Uganda 5478
varietal reactions 5478
Indian mustard
aflatoxins 3755
Bihar 3755
seeds 3755, 4555
laboratory tests
antifungal agents 3290
plant extracts 2481, 3290
plant oils 8119
maize
aflatoxins 2629
control 879
seeds 879
storage 2629, 6697, 7500
*Oroxylum indicum*
Assam 4820
seeds 4820
pigeon peas
control 3706
Maharashtra 3706
seeds 3706
rice, biological control 8390
soil, Bangladesh 119
taxonomy
culture media 3410
species 4224
tomatoes, seeds 4579
toxins 4173
wheat
aflatoxins 2629
storage 2629
***Aspergillus candidus***
cereals, storage 2629
groundnuts
seeds 8691
storage 8691

***Aspergillus candidus*** *cont.*
laboratory tests, essential oils 8118
taxonomy, evolution 3406
***Aspergillus carneus***
*Citrullus colocynthis*, Saudi Arabia 3194
laboratory tests
heavy metals 3194
mineral deficiencies 3194
***Aspergillus chevalieri***
cocoa
enzymes 2340
storage 2340
groundnuts
seeds 8691
storage 8691
***Aspergillus clavatus***
cassava
Burundi 7656
toxins 7656
production, antibiotics 2269
***Aspergillus ellipticus***
*Citrullus colocynthis*, Saudi Arabia 3194
laboratory tests
heavy metals 3194
mineral deficiencies 3194
***Aspergillus flavus***
antagonism, *Corticium rolfsii* 1487
*Arachis*, toxins 5472
*Aspergillus terreus*, antagonism 6258
cereals, storage 2629
cotton
control 3947
seeds 3947
toxins 3947
crops
control 5119
storage 5119
cucumbers
Jammu and Kashmir 8597
storage 8597
*Cuminum cyminum*
control 5594
toxins 5594
*Docynia indica*
Jammu and Kashmir 6154
postharvest decay 6154
*Echinochloa crus-galli*, aflatoxins 3630
fodder plants, storage 1466
*Foeniculum vulgare*
control 5594
toxins 5594
groundnuts
aflatoxins 3907
Alabama 7028
biological control 2325
control 3068, 6246, 7836
enzymes 2325
insects 6246
irrigation 7836
rhizosphere 1103
screening 4714
seeds 3068, 3907, 5474, 7033, 7836, 8691
soil water 3905
storage 8691
toxins 5472, 6246, 7028, 7836
varietal reactions 4714, 5474
vectors 7028
guar, seeds 8471
*Hevea brasiliensis*, seeds 2369
laboratory tests
antifungal agents 1814
2-azetidinones 6445
essential oils 8118
heavy metals 1871
plant extracts 1832, 1834
thiazolidinones 80
maize
Bihar 6704
environmental factors 3605
inoculation 889
insects 6704
resistance 304
seeds 3605, 4280, 6704
storage 6704
toxins 889, 4280, 6704, 7507, 8352, 8354
varietal reactions 4280
molecular genetics, DNA 7342
*Mucuna pruriens*, seeds 1744
***Aspergillus flavus*** *cont.*
*Paecilomyces lilacinus*, hyperparasitism 4201
*Panicum miliaceum*, aflatoxins 3630
*Panicum trypheron*, aflatoxins 3630
*Paspalum scrobiculatum*, aflatoxins 3630
pawpaws
control 3037
storage 3037
*Pennisetum americanum*
aflatoxins 3629
varietal reactions 3629
*Pinus gerardiana*, seeds 8791
production, antibiotics 2269
rice, plant extracts 2733
*Setaria italica*, aflatoxins 3630
soil
environmental factors 8168
Kyushu 8168
soil water 3905
toxins 8168
sorghum
aflatoxins 7516
seeds 7511, 8358
varietal reactions 7516
soyabeans, seeds 7596, 7598
sunflowers
seeds 4280
toxins 4280
varietal reactions 4280
taxonomy
aflatoxins 7342
morphology 7342
vegetative compatibility groups 7342
tomatoes
environmental factors 5337
storage 5337
*Vigna umbellata*
control 6026
seeds 6026
wheat
control 837
storage 837
yams
control 6068
postharvest decay 6068
***Aspergillus flavus* var. *columnaris***, maize, seeds 303
***Aspergillus fumigatus***
cereals, storage 2629
guar, seeds 8471
***Aspergillus glaucus***, cereals, storage 2629
***Aspergillus japonicus***
dates, biochemistry 7004
sugarbeet, host parasite relationships 3919
***Aspergillus luchuensis***
*Phyllanthus emblica*
Jammu and Kashmir 6218
postharvest decay 6218
soil, mulching 747
***Aspergillus nidulans***
antagonism, *Fusarium oxysporum* f.sp. *lycopersici* 4206
genetics, fungicide tolerance 4199
soyabeans, seeds 7598
***Aspergillus nidulans* var. *echinulatus***, cereals, storage 2629
***Aspergillus niger***
*Aspergillus terreus*, antagonism 6258
*Bacillus circulans*, antagonism 4868
*Bacillus firmus*, antagonism 4868
control, *Xanthomonas campestris* pv. *cyamopsidis*, guar 2819, 4507
cucumbers
Jammu and Kashmir 8597
storage 8597
*Docynia indica*
Jammu and Kashmir 6154
postharvest decay 6154
groundnuts
control 3068, 3904, 7836, 8690
irrigation 7836
pathogenicity 8690
plant anatomy 6247
rhizosphere 1103
seeds 3068, 7033, 7836, 8691
storage 8691
toxins 7836
varietal reactions 6247
West Bengal 8690
***Aspergillus niger*** *cont.*
guar, seeds 8471
*Hevea brasiliensis*, seeds 2369
laboratory tests
antifungal agents 2464, 4096
2-azetidinones 6445
essential oils 8118
plant extracts 692, 6464
pyrazolones 4097
onions
control 994, 4543
seeds 994
storage 4543
physiology, enzymes 8158
*Pinus gerardiana*, seeds 8791
plums, biological control 668
production, antibiotics 2269
quinces
Jammu and Kashmir 8620
storage 8620
rice, plant extracts 2733
safflower, biochemistry 3054
soil, mulching 747
sorghum
control 5197
seeds 5197
soyabeans, seeds 7596, 7598
taxonomy, evolution 3406
tomatoes
environmental factors 5337
Nematoda 1550
storage 5337
yams
control 6068
postharvest decay 6068
***Aspergillus niveus***, control, *Verticillium dahliae*, cotton 1136
***Aspergillus ochraceus***
cereals, storage 2629
crops
control 5119
storage 5119
***Aspergillus oryzae***, laboratory tests, cutinase 2109
***Aspergillus parasiticus***
crops
lipids 4271
seeds 4271
toxins 4271
groundnuts
biological control 3066
control 6246
insects 6246
toxins 3066, 6246
maize
breeding 3604
toxins 3604, 8352
rice
aflatoxins 7441
varietal reactions 7441
tobacco, control 7887
wheat
aflatoxins 7441
control 837
storage 837
varietal reactions 7441
***Aspergillus ruber***
groundnuts
seeds 8691
storage 8691
***Aspergillus tamarii***, sporulation 7345
***Aspergillus terreus***
antagonism
*Aspergillus flavus* 6258
*Aspergillus niger* 6258
*Fusarium oxysporum* f.sp. *sesami* 2327
*Syncephalastrum racemosum* 6258
groundnuts
control 3068
seeds 3068
soil water 3905
soil, soil water 3905
***Aspergillus ustus***
almonds, storage 7808
*Docynia indica*
Jammu and Kashmir 6154
postharvest decay 6154
***Aspergillus versicolor***, cereals, storage 2629
***Asplenium nidus***, *Guignardia bidwellii*, India 3403

***Aster***
bacteria
latent infections 7125
tissue culture 7125
***Astercantha longifolia,*** diseases, Haryana 8859
***Asteroma frondicola***
*Phoenix sylvestris*, India 3403
*Populus*, Himachal Pradesh 7919
***Asystasia gangetica,*** *Glomerella cingulata*, Singapore 4003
***Asystasia nemorum,*** *Glomerella cingulata*, Singapore 4003
***Athelia rolfsii,*** taxonomy, teleomorph 1297
***Athrotaxis***
*Gelineostroma swartii*
Tasmania 127
taxonomy 127
***Atkinsonella hypoxylon,*** taxonomy, descriptions 1910
***Atylosia villosa,*** *Cercospora atylosiae*, West Bengal 753
**Aubergines** (*Solanum melongena*)
*Alternaria alternata*
plant extracts 3762
postharvest decay 3762
*Botrytis cinerea*
plant extracts 3762
plant growth regulators 7674
postharvest decay 3762
*Clavibacter michiganensis* subsp. *sepedonicus*, mixed infections 2167
*Corticium rolfsii*, varietal reactions 1017
diseases
control 2903, 4904
grafting 2903
fruit rot, bacteria 1555
fungicide residues, mancozeb 4590
little leaf
biochemistry 6114
histopathology 1554
micropropagation 4589
mycoplasma-like organisms 1554, 4589, 6114
mycoplasma-like organisms, transmission 7696
mycorrhizas, Honshu 7296
*Paracercospora egenula*, Madhya Pradesh 5779
*Phomopsis vexans*
enzymes 1018
reviews 6115
virulence 1018
*Phytophthora nicotianae* var. *nicotianae*, control 8571
*Phytophthora nicotianae* var. *parasitica*, control 3763
*Pseudomonas solanacearum*
breeding 2904, 3781
Honshu 7697
selection 3780
varietal reactions 2904
*Pythium*, environmental factors 1303
*Rhizopus oryzae*, control 6116
seed treatment, seed germination 8572
tobacco mosaic tobamovirus
detection 1009
India 6876
seeds 1009
strains 6876
Turkey 1009
tomato spotted wilt tospovirus
characteristics 8570
Uttar Pradesh 8570
*Verticillium dahliae*, biological control 8540
***Aulacorthum solani,*** transmission, soybean dwarf luteovirus 6761
***Aureobasidium***
*Sequoia sempervirens*
endophytes 7107
USA 7107
***Aureobasidium apocryptum***
*Quercus petraea*
Austria 7094
endophytes 7094
***Aureobasidium pullulans,*** toxins 7344
**Aureofungin**
control
*Myrothecium verrucaria, Capsicum* 1558
**Aureofungin** *cont.*
control *cont.*
*Penicillium aurantiogriseum*, mangoes 3021
***Auricularia auricula-judae,*** diseases, Shaanxi 4790
**Austral,** seed treatment, wheat 3516
**Australasia**
cocoa, diseases 1125
mycorrhizal fungi, nomenclature 694
**Australia**
barley, diseases 3559
citrus, *Xanthomonas campestris* pv. *citri* 5445
*Glycine tomentella, Phakopsora pachyrhizi* 2103
Gramineae, geminiviruses 927
grapes
diseases 482
viroids 1070
*Heliotropium europaeum*
*Cercospora heliotropii-bocconii* 7167
*Uromyces heliotropii* 2429, 7167
*Lolium perenne, Acremonium lolii* 8410
*Lolium rigidum, Clavibacter toxicus* 7574
*Malajczukia*, taxonomy 708
pesticides
information 5659
usage 5659
*Stylosanthes, Glomerella cingulata* 6759
*Trifolium subterraneum*, viruses 2095
*Triglochin procera, Alternaria triglochinicola* 7987
triticale, *Puccinia graminis* 1390
wheat, *Puccinia graminis* 1390
*Xanthium spinosum, Colletotrichum orbiculare* 6358
*Lolium rigidum, Clavibacter toxicus* 8414
New South Wales
*Agrostis avenacea, Clavibacter toxicus* 7571
bananas
*Mycosphaerella musae* 6199
*Mycosphaerella musicola* 6199
*Cardamine lilacina*
cardamine chlorotic fleck virus 8841
turnip yellow mosaic tymovirus 8839
*Casuarina cunninghamiana*, mycorrhizas 7297
citrus
viroids 3873
viruses 3873
cotton
*Coprinus cinereus* 7896
*Xanthomonas campestris* pv. *malvacearum* 3118
*Helichrysum, Fusarium oxysporum* 5575
*Linum marginale, Melampsora lini* 3205
*Melaleuca quinquenervia*, mycorrhizas 7297
peaches, *Monilinia fructicola* 5412
*Pinus muricata, Mycosphaerella pini* 6306
*Pinus radiata, Mycosphaerella pini* 5551, 6306
rice
*Pythium* 4435
seedborne organisms 321
*Salix babylonica*, mycorrhizas 7297
soil, mycorrhizal fungi 6490
*Trifolium repens*, mycorrhizas 6491
weeds, biological control 8846
wild plants, viruses 8840
Northern Territory, *Mimosa pigra, Botryodiplodia theobromae* 2427
Queensland
*Alyxia ruscifolia, Uromyces alyxiae* var. *australiensis* 5608
avocados, diseases 6215
*Cryptostegia grandiflora, Marvalia cryptostegia* 6367
*Heliconia, Pseudomonas solanacearum* 5459, 5589
*Heliconia psittacorum, Pseudomonas solanacearum* 5458
*Mycoamaranthus auriorbis* 707
onions, *Peronospora destructor* 6073
**Australia** *cont.*
Queensland *cont.*
pastures, mycorrhizas 1260
*Pennisetum americanum*
Johnsongrass mosaic potyvirus 8359
sugarcane mosaic potyvirus 8359
*Royoungia boletoides* 707
*Sonneratia, Polystigma sonneratiae* 589
strawberries, diseases 5417
*Stylosanthes guianensis, Glomerella cingulata* 4462
sugarcane, *Puccinia melanocephala* 1642
tomatoes, *Fusarium oxysporum* f.sp. *lycopersici* 6103
wheat, *Cochliobolus sativus* 272
South Australia
barley
*Drechslera wirreganensis* 293
*Puccinia hordei* 8857
*Pyrenophora hordei* 2043
*Ornithogalum umbellatum, Puccinia hordei* 8857
pastures, barley yellow dwarf luteovirus 1980
peas, *Macrophomina phaseolina* 6015
*Polypogon monspeliensis, Clavibacter toxicus* 7571
wheat, barley yellow dwarf luteovirus 1980
Tasmania
apples, pudding spot 3829
*Athrotaxis, Gelineostroma swartii* 127
barley, *Puccinia hordei* 5176
Victoria
barley, *Rhizoctonia solani* 5901
*Brassica oleracea*
*Alternaria brassicae* 3754
*Alternaria brassicicola* 3754
cauliflowers, *Plasmodiophora brassicae* 2868
*Cirsium vulgare, Puccinia cnici* 6360
*Eucalyptus*
mycorrhizas 1843
*Phytophthora cinnamomi* 5534
*Lolium perenne*, barley yellow dwarf luteovirus 7565
plants, *Phytophthora cinnamomi* 6513
*Trifolium subterraneum, Phytophthora clandestina* 8421
wheat
*Gaeumannomyces graminis* 3510
*Gaeumannomyces graminis* var. *tritici* 5880
*Pseudocercosporella herpotrichoides* 3510
Western Australia
*Eucalyptus*, mycorrhizas 1269
*Eucalyptus marginata, Phytophthora cinnamomi* 7908
pastures, mycorrhizas 97
*Trifolium subterraneum*, subterranean clover mottle sobemovirus 4458
wheat
*Gaeumannomyces graminis* 850
*Gaeumannomyces graminis* var. *tritici* 3548
**Austria**
forest trees
air pollution 1149
decline 1149, 1719, 8747, 8764-8765
lettuces, *Bremia lactucae* 4562
pesticides, application 6911
*Picea abies*
air pollution 8802
decline 1719
plant diseases 4267
*Quercus petraea*, fungi 7094
*Thymus*, fungi 5609
wheat
*Fusarium culmorum* 6673
*Gibberella zeae* 6673
**Austrian pine** (*see Pinus nigra*)
***Avena***
*Ustilago segetum*, host specificity 5907
*Ustilago segetum* var. *avenae*, host specificity 5907

***Avena barbata***
*Glomus*
mycorrhizas
ecology 4993
plant competition 4993
***Avena fatua***
*Glomus intraradices*
mycorrhizas
growth 4165
reproduction 4165
*Puccinia graminis*
Canada 5905
races 5905
***Avena nuda***
*Cochliobolus sativus*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
*Gibberella zeae*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
*Pyrenophora avenae*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
***Avena sativa*** (*see* Oats)
***Avena sterilis* subsp. *ludovici,*** *Sclerophthora macrospora,* Indian Punjab 4301
***Averrhoa carambola,*** *Glomerella cingulata,* Taiwan 6219
***Avicennia alba,*** *Alternaria alternata,* West Bengal 8843
***Avicennia marina***
*Cladosporium marinum*
taxonomy 8844
West Bengal 8844
***Avicennia officinalis***
*Bipolaris colocasiae,* West Bengal 8843
*Pleospora herbarum,* Iran 1705
**Avocado pears** (*see* Avocados)
**Avocado sunblotch viroid,** molecular genetics, nucleotide sequences 7803
**Avocado virus 1**
avocados
DNA probes 2273
varietal reactions 2273
**Avocados** (*Persea americana*)
*Akaropeltopsis,* control 2280
avocado virus 1
DNA probes 2273
varietal reactions 2273
diseases
books 6215
control 6215
Queensland 6215
*Glomerella cingulata*
characteristics 3004
control 3884
DNA 3865
latent infections 7005
phytoalexins 7003
postharvest decay 3884, 4658
resistance 4658
variation 3865
*Glomus fasciculatum,* mycorrhizas, growth 8137
mycorrhizas, growth 1273
ozone
frost resistance 3006
growth 3006
*Phomopsis perseae*
control 2282
South Africa 2282
*Phytophthora cinnamomi*
antagonists 5455
biological control 2285
calcium 2278
control 2277, 6220, 7011
fertilizers 2284
insects 7011
Mexico 6220, 7011
reviews 7008
rootstocks 2286
screening 5452
South Africa 2276-2277, 2283
suppressive soils 2276, 2283
testing 2286
varietal reactions 2278
postharvest decay
biological control 2279
**Avocados** *cont.*
postharvest decay *cont.*
control 8662
New Zealand 512, 8662
*Pseudocercospora purpurea*
control 2280-2281
South Africa 2281
*Xanthomonas campestris,* California 3038
***Azadirachta indica***
plant extracts
antifungal agents 2813, 4877, 6964
antimicrobial properties 4413
antiviral agents 7057
**Azadirachtin** (*see also* Neem extracts)
**Azaleas** (*see Rhododendron*)
**Azerbaijan**
cotton, *Stemphylium macrosporioideum* 2362
figs
*Botrytis cinerea* 7009
*Fusicladium fici* 3881
persimmons, *Botrytis cinerea* 7009
*Platanus, Microsphaera platani* 3980
pomegranates, *Botrytis cinerea* 7009
**2-Azetidinones**
activity
*Aspergillus flavus* 6445
*Aspergillus niger* 6445
*Cochliobolus miyabeanus* 6445
**Azoles**
activity
*Cochliobolus lunatus* 5695
*Erysiphe graminis* 8106
*Fusarium solani* 5695
*Penicillium italicum* 4105
*Puccinia recondita* 8106
rice, seedborne fungi 6717
control, *Pyrenophora teres,* barley 3583
***Azospirillum***
antagonism, fungi 2484
control
*Fusarium oxysporum,* cotton 2484
*Thielaviopsis basicola,* cotton 2484
**Azuki bean mosaic potyvirus**
serology 191
taxonomy 191
***Bacillus***
activity
*Aspergillus flavus,* groundnuts 2325
*Botrytis cinerea,* grapes 6187
*Capsicum* 227
*Gaeumannomyces graminis,* wheat 5163
*Sclerotinia sclerotiorum*
rape 6236
soil 6236
antagonism, *Xanthomonas campestris* pv. *cyamopsidis* 4508
control
*Pleospora betae,* sugarbeet 541
*Pyricularia oryzae,* rice 5953
*Rhizoctonia solani*
potatoes 401
rice 5953
*Phaseolus vulgaris*
Honduras 3687
seeds 3687
potatoes
Poland 6061
storage 6061
varietal reactions 6061
production, antibiotics 6459
***Bacillus brevis,*** control, *Botrytis cinerea,* Chinese cabbages 6079
***Bacillus cereus***
activity, *Mycosphaerella arachidis,* groundnuts 8694
control
*Glomerella cingulata,* mangoes 4680
*Pythium aphanidermatum,* cucumbers 5371
rice, diseases 6712
rice, seeds 6712
***Bacillus circulans***
antagonism
*Aspergillus niger* 4868
*Cochliobolus lunatus* 4868
*Paecilomyces variotii* 4868
***Bacillus firmus***
antagonism
*Aspergillus niger* 4868
***Bacillus firmus*** *cont.*
antagonism *cont.*
*Cochliobolus lunatus* 4868
*Paecilomyces variotii* 4868
***Bacillus megaterium***
soyabeans
population dynamics 2107
rhizosphere 2107
***Bacillus mesentericus***
antagonism, plant pathogens 4511
potatoes, Ukraine 1516
***Bacillus mycoides,*** antagonism, plant pathogens 4511
***Bacillus polymyxa***
antagonism
plant pathogens 5003
*Sclerotinia sclerotiorum* 2791
***Bacillus subtilis***
activity, cotton, bacteria 574
antagonism
bacteria 1782
*Fusarium oxysporum* f.sp. *sesami* 2327
*Gibberella fujikuroi* 2062
plant pathogens 5003
*Pythium ultimum* 3253
*Rhizoctonia solani* 1887, 3253
*Valsa* 8155
*Xanthomonas oryzae* pv. *oryzae* 1221, 1790
apples, replant disease 1574
aubergines, mixed infections 2167
control
apples, replant disease 5393
avocados, postharvest decay 2279
*Colletotrichum trifolii,* lucerne 2765
*Corticium rolfsii, Pinellia ternata* 1745
*Fusarium oxysporum* f.sp. *dianthi,* carnations 615
*Fusarium oxysporum* f.sp. *niveum,* watermelons 1566
*Fusarium oxysporum* f.sp. *radicis-lycopersici,* tomatoes 8544
*Gaeumannomyces graminis* var. *tritici,* wheat 273
*Macrophomina phaseolina,* chickpeas 6019
*Pinus,* damping off 601
plant diseases 6608
*Pseudomonas solanacearum,* tomatoes 8544
*Rhizoctonia solani*
cucumbers 1565
peas 2804
*Uromyces appendiculatus, Phaseolus vulgaris* 5260
*Xanthomonas campestris* pv. *cyamopsidis,* guar 2819, 4507
production, antibiotics 6461
***Bacillus thuringiensis,*** activity, cotton, bacteria 574
**Bacteria**
activity, *Gaeumannomyces graminis* var. *tritici,* wheat 8313
antagonism
*Botrytis cinerea* 104
*Cryptodiaporthe populea* 7099
fungi 7429
*Fusarium oxysporum* 6547
*Pythium* 104
*Rhizoctonia solani* 4441
*Rhodococcus fascians* 621
*Saprolegnia parasitica* 104
*Verticillium dahliae* 6547
*Bacillus subtilis,* antagonism 1782
books 1781
control
*Aspergillus,* rice 8390
*Erwinia carotovora* subsp. *atroseptica,* potatoes 407
*Fusarium oxysporum* f.sp. *conglutinans,* radishes 227
*Fusarium oxysporum* f.sp. *vanillae, Vanilla planifolia* 626
*Penicillium,* rice 8390
*Phialophora cinerescens,* carnations 616
*Phytophthora cactorum,* apples 2957
*Phytophthora cinnamomi,* avocados 2285

**Bacteria** *cont.*
control *cont.*
plant diseases 3481, 6383
plant pathogens, soil 5030
*Rhizoctonia solani, Agrostis stolonifera* var. *palustris* 1728
detection 5, 5796
diversity 4912
genetic engineering, biological control 6458
ice nucleation 647
identification
expert systems 5643
fatty acids 5643
maize, Venezuela 2722
Nematoda, interactions 3228
nucleotide sequences 5796
peas
rotations 3472
Saskatchewan 3472
tillage 3472
polysaccharides, reviews 2443
soil, soil structure 576
sorghum, Venezuela 2722
transmission, Nematoda 3477
**Bactericides,** evaluation, *Erwinia amylovora* 7195
**Bacteriophages**
control, *Xanthomonas campestris* pv. *pruni*, peaches 3848
molecular genetics, RNA 4925, 4928-4929, 4931-4932
**Bajra** (*see Pennisetum americanum*)
***Balansia epichloë***
*Sporobolus poiretii*
histology 5983
mating types 5983
taxonomy, descriptions 1910
**Balansieae,** grasses, taxonomy 776
**Balsam fir** (*see Abies balsamea*)
**Bamboo mosaic potexvirus**
bamboos
immunodiagnosis 7161
Taiwan 7161
barley, infection 3561
**Bamboos**
bamboo mosaic potexvirus
immunodiagnosis 7161
Taiwan 7161
*Chaetomium globosum*, histopathology 7984
diseases
Assam 4818
Philippines 4890
*Phloeospora bullata*, India 3403
*Podosporium elongatum*
Taiwan 5600
taxonomy 5600
***Bambusa*** (*see also* Bamboos)
**Banana bract mosaic virus**
bananas
isolation 5433
monoclonal antibodies 5433
**Banana bunchy top virus**
bananas
heat treatment 5432
immunodiagnosis 8642-8643
Pakistan 3007, 5434
Taiwan 3003
tissue culture 5432
molecular genetics, nucleotide sequences 4251
*Musa*, gene banks 4659
**Bananas** (*Musa paradisiaca*)
banana bract mosaic virus
isolation 5433
monoclonal antibodies 5433
banana bunchy top virus
heat treatment 5432
immunodiagnosis 8642-8643
Pakistan 3007, 5434
Taiwan 3003
tissue culture 5432
*Cercospora musae*, varietal reactions 492
*Colletotrichum musae*
characteristics 3004
inoculum 2261
pathogenicity 3869
Windward Islands 3869
*Cordana musae*, varietal reactions 492
crown rot, inoculum 2261
**Bananas** *cont.*
cucumber mosaic cucumovirus, Taiwan 3003
*Cylindrocladium*, Martinique 6198
diseases
Malawi 493
quarantine 1075
Tamil Nadu 1076
varietal reactions 493
*Fusarium oxysporum*
Côte d'Ivoire 1598
Nematoda 1598
*Fusarium oxysporum* f.sp. *cubense*
distribution 2260
reviews 6977
Rwanda 5436
*Fusarium pallidoroseum*
control 494
pathogenicity 3869
postharvest decay 494
Windward Islands 3869
*Gibberella fujikuroi*
control 494
postharvest decay 494
*Gibberella fujikuroi* var. *subglutinans*
control 494
postharvest decay 494
*Glomerella cingulata*
characteristics 3004
DNA 3865
variation 3865
*Guignardia musae*, varietal reactions 492
*Microdochium dimerum*
control 494
postharvest decay 494
*Microsphaeropsis*, Oman 495
mycoplasma-like organisms
India 6973
research 6973
*Mycosphaerella fijiensis*
Africa 5435
breeding 5435, 8645
detection 6978
Kenya 4660
Mexico 6976
Nigeria 8645
Tanzania 3867
Uganda 6201
varietal reactions 3867
yield losses 6976
*Mycosphaerella fijiensis* var. *difformis*, Cuba 1077
*Mycosphaerella musae*
control 6199
models 6199
New South Wales 6199
*Mycosphaerella musicola*
Caribbean 3008
control 3008, 3868, 6199-6200
Cuba 3008, 3868
detection 6978
forecasting 3008
models 6199
New South Wales 6199
varietal reactions 3866
Venezuela 6200
*Pseudomonas solanacearum*
Colombia 3009, 4661
control 3009
quarantine 5585
reviews 6979
*Septoria pleralensis*, varietal reactions 492
sugarcane bacilliform badnavirus, molecular genetics 3437
sunscald
irradiation 8647
storage 8647
viruses
India 6973
quarantine 1075
research 6973
*Xanthomonas campestris* pv. *musacearum*
Ethiopia 8646
Nematoda 8646
**Bangladesh**
chickpeas
*Botrytis cinerea* 954, 5276
*Fusarium oxysporum* f.sp. *ciceris* 954
crops, diseases 6437
**Bangladesh** *cont.*
guavas
*Botryodiplodia theobromae* 1615
*Glomerella cingulata* 1615
*Pestalotiopsis psidii* 1615
mangoes, *Botryodiplodia theobromae* 6998
pesticides, usage 6437
rice, *Xanthomonas oryzae* pv. *oryzae* 5971
soil, fungi 119
tomatoes, *Pseudomonas solanacearum* 439
wheat, *Cochliobolus sativus* 4347
**Barbados**
*Capsicum*, *Xanthomonas campestris* pv. *vesicatoria* 1010
onions
*Erwinia herbicola* 4550
*Xanthomonas campestris* 4550
tomatoes, *Xanthomonas campestris* pv. *vesicatoria* 1010
**Barium chloride,** activity, rice tungro virus, rice 4414
**Bark beetles,** epidemiology, blue-stain fungi, *Pinus sylvestris* 599-600
**Barley** (*Hordeum vulgare*)
*Alternaria alternata*, breeding 3563
*Arthrinium arundinis*, Montana 872
bamboo mosaic potexvirus, infection 3561
barley mild mosaic bymovirus
biology 2621
characteristics 7482
China 2028
genetics 2688, 5886
molecular genetics 8324
UK 2621
varietal reactions 2028
barley stripe mosaic hordeivirus
Egypt 2029
infectivity 1406
RNA 1406
seeds 5988
Syria 5988
transmission 1372
varietal reactions 2029
barley yellow dwarf luteovirus
breeding 241, 1979
epidemiology 4354
fertilizers 4357
genetic transformation 5126
genetics 241, 5126
Idaho 819
immunodiagnosis 1371
Mexico 7437
molecular genetics 3560
pathogenicity 1979
purification 1371
serotypes 7437
Spain 4354
straw incorporation 4355
transmission 819, 1372
USSR 243
barley yellow mosaic bymovirus
biology 2621
breeding 5173-5174
characteristics 7482
China 2028
molecular genetics 8324
UK 2621
varietal reactions 2028, 4356, 7481
brome mosaic bromovirus
Germany 862
host parasite relationships 5175
molecular genetics 5103, 5175
RNA 862
transmission 1372
*Cochliobolus sativus*
breeding 3563
control 5900
Parana 5846
Rio Grande do Sul 5846
rotations 5846
soil amendments 5900
straw 3586
Sweden 7493
testing 2700
toxins 2700, 5180
yield losses 3586

**Barley** *cont.*
*Corticium rolfsii*
control 289, 2046
edaphic factors 1411
heavy metals 289
diseases
Australia 3559
biological control 5776
breeding 234
control 2027, 3564, 4358, 5844, 5887, 5889, 7435
crop mixtures 6631
defence mechanisms 3493
Denmark 5844
Egypt 2026
fertilizers 4216
forecasting 137, 238
genetics 3558
Germany 134, 7484
growth regulators 2027
host parasite relationships 5129
induced mutations 234
integrated control 7484
Italy 5889
Latvia 826
models 134, 2032
Norway 2027
Oregon 2689
phenolic compounds 5129
proteins 3493
rotations 6631
seed treatment 2689
Switzerland 137
yield losses 2032
*Drechslera wirreganensis*
South Australia 293
taxonomy 293
*Erysiphe graminis*
air spora 865
antigens 2695
breeding 3571, 5177, 6679-6680, 6682, 7490
Bulgaria 6682
control 1407, 2627, 3565, 3576, 6450-6451, 8256, 8262
Czechoslovakia 4366
Denmark 4368
environmental factors 866
enzymes 2039
Europe 865, 3581
France 2037, 2693, 5896
fungicide tolerance 867, 2697, 3581, 8331
genetics 283, 1409, 2693-2694, 3570-3571, 3574-3575, 4361, 4363-4364, 6678, 7488-7489, 8328
genotype mixtures 2036, 3498, 3581
Germany 2627, 2697
growth stage 2692
histopathology 5178, 8330
host parasite relationships 2033, 2038, 2695, 4367, 5179, 6630, 7491, 8328, 8330
induced mutations 283, 6679-6680
induced resistance 3577, 4367, 6681
infection 2039
Italy 2037
models 4368
molecular genetics 2034-2035, 2038, 2605, 3573, 4365, 8327
pathogenesis-related proteins 2696, 3572, 4362
photosynthesis 3580
population dynamics 865, 4368
population genetics 3578, 3581
proteins 3574
races 2697, 5896
rain 4281
relative humidity 5895
resistance 1409, 2034, 2692
sampling 5845
Spain 2037, 4361
spore dispersal 865
strains 2037
UK 867, 3578, 8331
varietal reactions 3578, 5178, 5895, 6678, 8329
virulence 3578
water stress 3579
yield losses 2627

**Barley** *cont.*
*Erysiphe pisi*, host parasite relationships 7491
flame chlorosis
cytology 242
Manitoba 6693
fungi, genetics 2030
fungicides
uptake 5888
yields 6677
*Fusarium*
Czechoslovakia 1374
seed germination 5852
seeds 6636
varietal reactions 4300, 5852
*Fusarium culmorum*
biological control 292
Czechoslovakia 1374
testing 7442
*Fusarium roseum*, testing 7442
*Gaeumannomyces graminis*
control 2702
cultural methods 2702, 5849
fertilizers 8258
UK 5849
varietal reactions 8258
*Gaeumannomyces graminis* var. *tritici*
sowing date 291
UK 291
*Gibberella zeae*
breeding 3563
host parasite relationships 288
Japan 8260
Parana 5846
pathogenicity 6634
Rio Grande do Sul 5846
rotations 5846
testing 7442
yield losses 8260
*Glomus*
mycorrhizas
fertilizers 5727
fungicides 5727
Germany 5727
population dynamics 5727
*Leptosphaeria nodorum*
seeds 6636
varietal reactions 2701
*Magnaporthe grisea*, Kenya 6688
*Microdochium bolleyi*
histopathology 4371
infection 4371
mycorrhizas, phosphorus 1856
*Penicillium aurantiogriseum*, Czechoslovakia 1374
pesticides
phytotoxicity 2623
toxicity 7214
*Polymyxa graminis*
isolation 8335
ultrastructure 5902
*Pseudocercosporella herpotrichoides*
fungicide tolerance 2628
Germany 2628
*Pseudomonas syringae*
epiphytes 1412
ice nucleation 1412
*Puccinia*
appressoria 1984
resistance 1984
*Puccinia coronata*
Minnesota 2690
Nebraska 2690
North Dakota 2690
South Dakota 2690
*Puccinia graminis*
Canada 5847
genetics 7485, 7487
pathotypes 7487
races 4302-4303, 5847
resistance 4360
testing 7487
USA 4302-4303
*Puccinia hordei*
alternative hosts 8857
control 3565, 6450, 8256
Czechoslovakia 3496
Denmark 5892
enzymes 8326
genetics 3496, 3566
genotype mixtures 7444

**Barley** *cont.*
*Puccinia hordei cont.*
histology 3503
host parasite relationships 3503
models 2031
plant water relations 3569
races 3567, 5892
selection 8325
South Australia 8857
Tasmania 5176
UK 3567
varietal reactions 5890, 5892
virulence 5176
yield losses 2031, 5890
*Puccinia recondita*
genotype mixtures 3498
histology 3503
host parasite relationships 3503
*Puccinia striiformis*
control 5893, 7486
genetics 4359
Himachal Pradesh 262
Mexico 5893, 7486
pathotypes 262
seeds 5893
varietal reactions 5891
*Pyrenophora avenae*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
*Pyrenophora graminea*
antagonists 1281
biochemistry 3582
Bulgaria 1410
characteristics 1410
control 2041, 5897
detection 1375
Egypt 2041
fertilizers 2042
Gansu 284
Iran 2699
isolates 3582
Italy 3582
physiology 5897
Rajasthan 7492
seeds 1375
USSR 2042
varietal reactions 284, 2041, 3584, 7492
yield losses 2699, 7492
*Pyrenophora hordei*
South Australia 2043
taxonomy 2043
*Pyrenophora teres*
biological control 286, 6685
breeding 8332
control 1817, 3583
Czechoslovakia 868
environmental factors 868
genetics 6684, 8332
growth 868
isolates 2698
nitrogen metabolism 6686
seeds 286
Slovakia 2698
toxins 2040
yield losses 6684
*Rhizoctonia*
Jiangsu 8248
pathogenicity 8248
*Rhizoctonia cerealis*
anastomosis groups 8334
Jiangsu 8334
*Rhizoctonia oryzae*
control 290
Oregon 290
Washington 290
weeds 290
*Rhizoctonia solani*
anastomosis groups 8334
control 290, 5901
Iran 1408
Jiangsu 8334
Oregon 290
Victoria 5901
Washington 290
weeds 290
*Rhynchosporium secalis*
cell membranes 4369
control 3585, 5899
Denmark 5899

**Barley** *cont.*
*Rhynchosporium secalis cont.*
environmental factors 5898
epidemiology 869
fungicide tolerance 6687
genotype mixtures 3498
host parasite relationships 871, 4369
Idaho 870
inoculum 869, 5898
isoenzymes 2044
Kenya 8333
models 2031
Ontario 5898
Oregon 870
pathotypes 870
population genetics 2044
resistance 287
screening 8333
UK 6687
varietal reactions 870, 4370
yield losses 2031
rice black-streaked dwarf fijivirus, Korea Republic 901
root rots, fertilizers 1981
*Ustilago segetum*
mating types 864
varietal reactions 5130
*Ustilago segetum* var. *nuda*
Italy 2691
Rajasthan 5894
screening 5894
seeds 2691
wheat streak mosaic rymovirus, cytology 818
**Barley mild mosaic bymovirus**
barley
biology 2621
characteristics 7482
China 2028
genetics 2688, 5886
molecular genetics 8324
UK 2621
varietal reactions 2028
Japan 5074
molecular genetics, nucleotide sequences 3562, 5068
rye, symptoms 874
**Barley stripe mosaic hordeivirus**
barley
Egypt 2029
infectivity 1406
RNA 1406
seeds 5988
Syria 5988
transmission 1372
varietal reactions 2029
immunology, proteins 3430
molecular genetics, DNA 5056
**Barley yellow dwarf luteovirus**
barley
breeding 241, 1979
Egypt 2026
epidemiology 4354
fertilizers 4357
genetic transformation 5126
genetics 241, 5126
immunodiagnosis 1371
Mexico 7437
molecular genetics 3560
pathogenicity 1979
purification 1371
serotypes 7437
Spain 4354
straw incorporation 4355
transmission 1372
USSR 243
*Bromus*, susceptibility 926
carrots, genetic transformation 3738
cereals
alternative hosts 4298
Croatia 3494
Idaho 819-820
models 4299
Morocco 3495, 4298
reservoir hosts 3495
reviews 821
strains 4298
transmission 819-820, 3495, 4298-4299
UK 4299
vectors 3494
**Barley yellow dwarf luteovirus** *cont.*
detection 790
DNA probes 1329
Gramineae, Japan 3661
grasses
Morocco 3495
reservoir hosts 3495
transmission 3495
Italy 2591
*Lolium perenne*
screening 7565
varietal reactions 7565
Victoria 7565
maize
resistance 6696
transmission 6696
Yugoslavia 4380, 5911
molecular genetics
satellite RNA 1342
translation 8200
oats
breeding 241
genetics 241
immunodiagnosis 1371, 1373
mixed infections 8336
Pennsylvania 8336
purification 1371
selection 4372, 8337
strains 2703
transmission 1372, 2703
USSR 243
yield losses 8336
pastures, South Australia 1980
strains 2591
transmission 2591, 4248
triticale, genetics 4296
wheat
Arkansas 5133
breeding 241, 1979, 2634-2635
genetic transformation 5126
genetics 241, 4296, 5126, 8270
Hungary 1382
immunodiagnosis 1373
Mexico 7437, 8270
pathogenicity 1979
plant density 8271
reservoir hosts 5133
serotypes 5133, 7437
South Australia 1980
sowing date 8271
transmission 2636
USSR 243
varietal reactions 8271
Yugoslavia 8271
**Barley yellow mosaic bymovirus**
barley
biology 2621
breeding 5173-5174
characteristics 7482
China 2028
molecular genetics 8324
UK 2621
varietal reactions 2028, 4356, 7481
plants, histopathology 1324
**BAS 480 F**
development 7242
nontarget effects
soil fauna 3308
soil flora 3308
**BAS 490 F**, control, crops, diseases 8096
**Basamid** (*see* Dazomet)
***Basella alba***, plant extracts, antiviral agents 7057
**Basidiomycetes**, forest trees, Taiwan 2378
***Basidiophora***, taxonomy 766
***Basidiophora montana***
*Mikania micrantha*
Brazil 766
taxonomy 766
**Basil** (*see Ocimum basilicum*)
***Bauhinia purpurea***
*Septoria bauhiniae*
Assam 7954
taxonomy 7954
***Bauhinus***, taxonomy 7379
**Bavistin** (*see* Carbendazim)
**Bean common mosaic potyvirus**
cowpeas, seeds 381
Leguminosae, Taiwan 2776
*Phaseolus vulgaris*
Cuba 6008
**Bean common mosaic potyvirus** *cont.*
*Phaseolus vulgaris cont.*
drought 6782
Mexico 6775, 6782
pathogenicity 2789
screening 2117
Spain 2790
strains 211, 2789
taxonomy 211
varietal reactions 1490
yield losses 6008, 6775
serology 191
serotypes 193
strains 192
taxonomy 190-193
**Bean golden mosaic bigeminivirus**, *Phaseolus vulgaris*, proteins 8438
**Bean leaf roll luteovirus**
chickpeas
Madhya Pradesh 2134
Myanmar 2133
Spain 4490
yield losses 2806
lucerne
Canada 4454
USA 4454
peas, genetics 372
**Bean pod mottle comovirus**
soyabeans, mixed infections 2102
transmission 169
**Bean yellow mosaic potyvirus**
faba beans
detection 6002
Italy 3681
seeds 6002
Syria 5988
*Gladiolus*
corms 2412
detection 2412
grain legumes, New Zealand 8423
lentils, Syria 5988
*Macrotyloma uniflorum*, varietal reactions 2150
*Medicago murex*, yield losses 925
*Medicago polymorpha*, yield losses 925
molecular genetics
coat proteins 4249
nucleotide sequences 4249
peas, strains 6012
*Phaseolus vulgaris*, Spain 2790, 6007
taxonomy
molecular genetics 189
strains 4249
*Trifolium pratense*, varietal reactions 8418
*Trifolium subterraneum*
Australia 2095
yield losses 925
**Beans** (***Phaseolus***) (*see Phaseolus*)
**Beech** (*see Fagus*)
**Beet cryptic III alphacryptovirus**
molecular genetics, nucleotide sequences 8230
spinach beets, characteristics 6086
**Beet curly top intergeminivirus**
Indian mustard
California 6843
transmission 6843
molecular genetics
coat proteins 3440
transmission 3440
*Sinapis alba*
California 6843
transmission 6843
sugarbeet, reviews 1651
tomatoes
control 8545
Washington 8545
**Beet mild yellowing luteovirus** (*see* Beet western yellows luteovirus)
**Beet mosaic potyvirus**
beetroots
Kazakhstan 419
Kyrgyzstan 419
Ukraine 419
Uzbekistan 419
sugarbeet, Greece 4728
transmission 5800
**Beet necrotic yellow vein furovirus**
*Beta*, resistance 3917

**Beet necrotic yellow vein furovirus** *cont.*
*Chenopodium quinoa*
infection 803
molecular genetics 803
soil, Hungary 7855
sugarbeet
abscisic acid 7857
Beijing 537
biochemistry 1115
biological control 2332
biotechnology 6260
breeding 3915, 6261
control 1118, 5487
Czech Republic 2333
Czechoslovakia 538
detection 3087
gas exchange 7856
genetic transformation 6261
Hungary 7855
immunodiagnosis 5488
Italy 3089
Kyrgyzstan 8708
mixed infections 7854
Ningxia 7852
plant water relations 7857
Poland 5485
research 1118
selection 3090, 6260, 8708-8709
stomata 7858
temperature 7851
transmission 2332
UK 5487
Ukraine 8704
varietal reactions 536, 6262, 7855-7858, 8702, 8704
vectors 7851, 7854-7855
yield losses 6262
*Tetragonia tetragonioides*
gene expression 1346
symptoms 1346
**Beet pseudo-yellows virus**
melons
breeding 7707
Spain 7707
**Beet soil-borne furovirus**
immunodiagnosis, monoclonal antibodies 1117
sugarbeet
mixed infections 7854
vectors 7854
yield losses 6263
**Beet western yellows luteovirus**
chickpeas, Spain 4490
detection 790
grain legumes, New Zealand 8423
*Lactuca*, genetics 6851
lettuces, genetics 6851
molecular genetics, genetic engineering 3445
*Physalis floridana*, immunodiagnosis 5817
potatoes
epidemiology 6034
survival 6034
Washington 6034
rape
Czechoslovakia 4727
reservoir hosts 4727
sugarbeet
control 1119, 7853, 8705
Czechoslovakia 4727
diagnosis 1120
forecasting 5486
France 1119-1120
genetic transformation 2562
models 1116
Poland 5485
reservoir hosts 4727
resistance 2562
spread 1116
transmission 5486, 8705
vectors 1119, 7853
weeds
British Columbia 2423
Czechoslovakia 4727
reservoir hosts 4727
**Beet yellows closterovirus**
beetroots
Kazakhstan 419
Kyrgyzstan 419
Ukraine 419
**Beet yellows closterovirus** *cont.*
beetroots *cont.*
Uzbekistan 419
molecular genetics
coat proteins 3446
gene expression 3446
sugarbeet
biochemistry 1115
control 3086, 7853, 8705
forecasting 8707
immunodiagnosis 3088
models 1116, 8706
Netherlands 8707
Poland 5485
spread 1116
transmission 8705-8706
UK 8706
vectors 7853, 8707
**Beetroots** (*Beta vulgaris*)
*Alternaria alternata*, toxins 7659
beet mosaic potyvirus
Kazakhstan 419
Kyrgyzstan 419
Ukraine 419
Uzbekistan 419
beet yellows closterovirus
Kazakhstan 419
Kyrgyzstan 419
Ukraine 419
Uzbekistan 419
*Pleospora betae*, Russia 1008
*Pythium ultimum*
control 420
seed treatment 420
*Rhizoctonia solani*
control 420
seed treatment 420
**Beets** (*see* Beetroots; Fodder beet; Spinach beets; Sugarbeet)
***Begonia***
*Erysiphe polyphaga*, control 6344
*Microsphaera begoniae*, control 6344
*Oidium begoniae*, plant extracts 7432
**Belarus**
lupins, *Diaporthe woodii* 3673
*Picea abies*, root rots 4845
*Pinus sylvestris*
air pollution 4843
*Heterobasidion annosum* 4832-4833
potatoes
diseases 385
*Geotrichum candidum* 405
*Gibberella pulicaris* 397
*Helminthosporium solani* 2163
vegetables, diseases 385
**Belgium**
cereals, diseases 6624
peas
*Botrytis cinerea* 7616
*Mycosphaerella pinodes* 7616
*Picea abies*, mycorrhizas 4964
strawberries, *Botrytis cinerea* 6173
**Bell pepper dwarf mosaic virus,** *Capsicum*, biochemistry 6884
**Belladonna mottle tymovirus**
molecular genetics
coat proteins 7411
taxonomy 7411
***Bemisia tabaci***
epidemiology, viruses 3432
transmission
African cassava mosaic bigeminivirus 6832
*Capsicum*, viruses 5342
marrows, silverleaf 3788
okra (bhendi) yellow vein mosaic bigeminivirus 5381-5383, 8605
soybean yellow mosaic virus 2777
tomato yellow leaf curl bigeminivirus 2890-2891, 4577
**Benalaxyl**
control
*Peronospora destructor*, onions 6073
*Pseudoperonospora cubensis*, melons 3800
**Bendiocarb,** control, *Phytophthora infestans*, potatoes 7643
**Bengal gram** (*see* Chickpeas)
**Bengard**
nontarget effects
soil bacteria 2479
**Bengard** *cont.*
nontarget effects *cont.*
soil fungi 2479
**Benlate** (*see* Benomyl)
**Benniseed** (*see* Sesame)
**Benodanil**
control
*Cronartium ribicola*, *Pinus lambertiana* 7112
*Puccinia asparagi*, asparagus 8530
fungicide residues
fruit 2451
vegetables 2451
**Benomyl**
activity
*Alternaria* 3290
*Aspergillus* 3290
*Botrytis allii* 3297
*Botrytis cinerea* 3297
*Chalara paradoxa*, *Raphia* 4784
*Euphorbia pulcherrima* 4856
*Fusarium oxysporum* f.sp. *asparagi*, asparagus 8528
*Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 5333
*Fusarium oxysporum* f.sp. *vasinfectum*, tomatoes 5333
*Gibberella fujikuroi*, asparagus 8528
*Hypoxylon serpens* 4732
melons 445
*Metarhizium anisopliae* 7202
mycorrhizal fungi 7293
soil 3345
*Neurospora crassa* 6442
peaches, phylloplane fungi 2242
*Penicillium* 3290
*Phomopsis perseae* 2282
*Septoria apiicola* 7248
sugarbeet, diseases 535
*Thielaviopsis basicola*
soil 6273
tobacco 6273
*Trichoderma harzianum* 4955
*Trichoderma longibrachiatum* 4955
control
*Acremonium*, melons 7721
*Alternaria porri*, onions 4541
apples, storage decay 2961
*Aspergillus niger*, onions 994
avocados, postharvest decay 8662
*Botryodiplodia theobromae*, *Brachychiton populneus* 608
*Botryosphaeria dothidea*, apples 4613
*Botrytis allii*, onions 2175
*Botrytis cinerea*, tomatoes 6099
*Catacauma torrendiella*, coconuts 2320
chickpeas, seedborne fungi 2807
*Colletotrichum capsici*, cowpeas 2147
*Colletotrichum lindemuthianum*, *Phaseolus vulgaris* 946
*Colletotrichum orbiculare*, watermelons 1035
*Colletotrichum truncatum*, soyabeans 6768
cotton, seedborne fungi 5517
*Cylindrocladium colhounii*
*Annona cherimola* 5456
*Annona squamosa* 5456
*Diplodia rosarum*, roses 4855
*Entomosporium mespili*, *Photinia fraseri* 3996
*Eutypa lata*, grapes 2997
*Fusarium oxysporum* f.sp. *cepae*, onions 2175
*Gloeodes pomigena*, apples 6914
*Glomerella cingulata*, oranges 5441
grapes, ozone, damage 6971
groundnuts, diseases 7032
*Laetisaria fuciformis*, *Lolium perenne* 931
*Leptosphaeria maculans*, rape 518
*Leucostoma*, apples 1578
*Litchi chinensis*, storage decay 3028-3030
maize
seedborne organisms 5912
storage decay 7500
*Microcyclus ulei*, *Hevea* 579
*Mycogone perniciosa*, mushrooms 5604

**Benomyl** *cont.*
control *cont.*
*Mycosphaerella arachidis*, groundnuts 529
*Mycosphaerella berkeleyi*, groundnuts 529
*Mycosphaerella brassicicola*, Brussels sprouts 8515
*Mycosphaerella musicola*, bananas 3868
*Nectria rigidiuscula*, cocoa 3093
oranges, storage decay 6205-6206
*Phaeoisariopsis griseola*, *Phaseolus vulgaris* 946
*Phoma exigua* var. *diversispora*, *Phaseolus vulgaris* 946
*Phoma sorghina*, rice 6741
*Phomopsis*, sunflowers 3051
*Phomopsis amygdali*, peaches 4631
*Pinus*, diseases 4831
*Pseudocercospora purpurea*, avocados 2281
*Pyrenochaeta terrestris*, onions 2175
*Pyrenopeziza brassicae*, Brussels sprouts 8515
*Rhizoctonia solani*
*Brassica* 6081
*Euphorbia pulcherrima* 4856
*Lolium perenne* 931
*Phaseolus vulgaris* 6779
*Schizothyrium pomi*, apples 6914
*Sclerotinia homoeocarpa*, *Poa pratensis* 1724
soyabeans, seedborne fungi 6765
*Sphaerotheca pannosa*, peaches 4629
sunflowers, diseases 4708
*Thielaviopsis basicola*, groundnuts 530
*Trifolium pratense*, root rots 8420
*Trifolium repens*, diseases 348
triticale, diseases 5183
*Ulocladium chartarum*
apples 2962
pawpaws 2962
*Ustilago scitaminea*, sugarcane 6257
environmental impact, books 8088
fungicide residues, cowpeas 6025
fungicide tolerance
*Botrytis cinerea* 4108, 5831, 6525, 6531, 7774
*Colletotrichum gloeosporioides* f.sp. *aeschynomene* 4185
*Deuterophoma tracheiphila* 4673
*Gibberella fujikuroi* 1456, 6521
*Glomerella cingulata* 6268, 7864
*Leptosphaeria nodorum* 4183
*Monilinia fructicola* 2223, 5412
*Mycogone perniciosa* 5604
*Penicillium* 2223
*Penicillium oxalicum* 2215
*Sclerotinia homoeocarpa* 2223
*Venturia inaequalis* 2223-2224, 4108
*Venturia pirina* 2223, 4108
nontarget effects, nitrogen fixing bacteria 3309
persistence, sour oranges 4674
public health, books 8088
seed treatment
asparagus 8532
*Brassica* 6081
cereals 827
cowpeas 2147
maize 2714
peas 6013
soyabeans 6765
*Trifolium* 934
wheat 6651
soil treatment 3345
storage, solutions 79
toxicity, earthworms 1246, 7208
**Benzalthioanilines,** antifungal properties 4098
**Benzimidazole fungicides**
control, wheat, diseases 3518
fungicide tolerance
*Botrytis cinerea* 688, 3295, 3376
*Botrytis elliptica* 688
*Botrytis tulipae* 688
*Cercospora beticola* 3295
*Neurospora crassa* 3294
*Venturia pirina*, pears 2963
**Bermuda grass** (*see Cynodon dactylon*)
***Berteroa incana***
turnip yellow mosaic tymovirus
Germany 1187
immunodiagnosis 1187
***Beta***
beet necrotic yellow vein furovirus, resistance 3917
*Polymyxa betae*, resistance 3917
***Beta vulgaris*** (*see* Beetroots; Fodder beet; Spinach beets)
***Beta vulgaris* var. *saccharifera*** (*see* Sugarbeet)
**Betel** (*see Piper betle*)
**Betelnut** (*see* Arecanuts)
***Betula alleghaniensis,*** *Wilcoxina mikolae* var. *mikolae*, mycorrhizas, morphology 2493
***Betula nana***
*Myrothecium groenlandicum*
Greenland 7907
taxonomy 7907
***Betula papyrifera* var. *cordifolia,*** decline, Vermont 7904
***Betula pendula***
Basidiomycotina, pathogenicity 1148
*Hebeloma crustuliniforme*, mycorrhizas, landfills 4133
*Laccaria proxima*, mycorrhizas, landfills 4133
*Melampsoridium betulinum*
acid rain 3134
Finland 2381
host specificity 2381
taxonomy 2381
*Paxillus involutus*, mycorrhizas, landfills 4133
*Russula ochroleuca*, mycorrhizas, morphology 6478
***Betula pubescens***
acid rain
Finland 5533
phyllosphere fungi 5533
*Melampsoridium betulinum*
Finland 2381
host specificity 2381
taxonomy 2381
**Bhindi** (*see* Okras)
**Bibliographies**
biological control agents 7178
groundnuts, aflatoxins 7831
integrated pest management, Central America 651
maize, diseases 2047
plants, viruses, Turkey 785
pome fruits, diseases 2218
***Bifusella pini,*** IMI descriptions 3394
**Bilberries** (*see Vaccinium*)
**Biloxazol,** control, *Tilletia indica*, wheat 5867
**Binapacryl,** photolysis 5689
**Biocontrol** (*see* Biological control)
**Biodiversity,** information 2
**Biographies**
J. H. Simmonds 8025
J. Münter 6556
K. A. Harrison 6385
N. H. White 4911
W. P. Fraser 5636
**Biological control**
biodiversity, reviews 1
books 4043
diseases 99, 3481
*Agrobacterium tumefaciens*
peaches 471
rice 6742
*Alternaria brassicicola*
*Brassica* 3751
cabbages 4553
*Alternaria linicola*, linseed 3891
*Alternaria raphani*, radishes 2869
*Alternaria solani*
lucerne 2615
tomatoes 2615
*Aphanomyces cochlioides*, sugarbeet 3469
*Aphanomyces euteiches*, peas 4484
apples
postharvest decay 1047, 2222
replant disease 460, 5393
**Biological control** *cont.*
diseases *cont.*
*Armillaria limonea*, *Pinus radiata* 7939
*Armillaria mellea*, trees 581
*Armillaria novae-zelandiae*, *Pinus radiata* 7939
asparagus 8536
*Aspergillus*, rice 8390
*Aspergillus flavus*, groundnuts 2325
*Aspergillus niger*, plums 668
avocados, postharvest decay 2279
barley 5776
beet necrotic yellow vein furovirus, sugarbeet 2332
*Botrytis allii*, onions 4548
*Botrytis cinerea*
apples 6150
*Brassica* 3751
cabbages 4553
Chinese cabbages 6079
crops 5828, 5833
cucumbers 4604, 6135
grapes 6187
greenhouse crops 3470
kiwifruits 7791
roses 2407
strawberries 478, 8629
tomatoes 6100
*Botrytis fabae*, faba beans 4472, 7685
cabbages 6607
carrots 6608
chrysanthemums, viruses 7134
citrus, postharvest decay 8651
*Clavibacter michiganensis* subsp. *michiganensis*, rice 6742
*Clavibacter michiganensis* subsp. *sepedonicus*, potatoes 6063
*Cochliobolus miyabeanus*, rice 668
cocoa 7873
*Colletotrichum* 6618
*Colletotrichum graminicola*, maize 2066
*Colletotrichum trifolii*, lucerne 2765
*Coriolus versicolor*, *Pseudotsuga menziesii* 3991
*Corticium rolfsii*
chickpeas 4497
cucumbers 8167
*Pinellia ternata* 1745
rice 337
sesame 1105
sugarbeet 4731
tomatoes 8564
wheat 278
*Corticium salmonicolor*, *Hevea brasiliensis* 5523
cotton 3480
bacteria 574
*Crinipellis perniciosa*, cocoa 7051
crops 666, 815, 1973, 3482-3483
growing media 229
*Cryphonectria parasitica*, chestnuts 3887, 8664
cucumbers 2917, 6607
*Cyperus esculentus*, *Puccinia canaliculata* 5617
*Cyperus rotundus*, *Puccinia canaliculata* 5617
*Didymella bryoniae*, cucumbers 4604
*Erwinia amylovora*
apples 1041, 1049, 7741
*Crataegus monogyna* 610, 4859
pears 1041, 3832
*Erwinia carotovora* subsp. *atroseptica*, potatoes 407
*Erwinia carotovora* subsp. *carotovora*, rice 6742
*Erysiphe graminis*, barley 3577
*Euoidium*, sunflowers 4705
*Eutypa lata*, grapes 8633
fruit 2609, 2614
postharvest decay 3464, 3471, 4282
storage decay 5840, 7428
*Fusarium* 120
sesame 1107
*Fusarium culmorum*
barley 292
wheat 276

**Biological control** *cont.*
diseases *cont.*
*Fusarium oxysporum*
cotton 2484
cowpeas 7624
faba beans 6004
watermelons 3806
*Fusarium oxysporum* f.sp. *asparagi*, asparagus 8528
*Fusarium oxysporum* f.sp. *ciceris*, chickpeas 4497
*Fusarium oxysporum* f.sp. *dianthi*, carnations 612-613, 615, 617, 5580, 7138
*Fusarium oxysporum* f.sp. *gerberae*, *Gerbera* 614
*Fusarium oxysporum* f.sp. *lini*, flax 1678, 7078
*Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6865, 8540
*Fusarium oxysporum* f.sp. *niveum*, watermelons 1566
*Fusarium oxysporum* f.sp. *radicis-lycopersici*, tomatoes 8544
*Fusarium oxysporum* f.sp. *vanillae*, *Vanilla planifolia* 626
*Fusarium oxysporum* f.sp. *vasinfectum*, sesame 7844
*Fusarium solani*, *Panax pseudoginseng* 5592
*Gaeumannomyces graminis*, wheat 853, 3549, 5163, 6664
*Gaeumannomyces graminis* var. *tritici*, wheat 273-274, 852, 5162, 6665, 8313
*Gibberella avenacea*, flax 5117
*Gibberella fujikuroi*
asparagus 8528
maize 1420-1421, 5189
*Gibberella pulicaris*, potatoes 397
*Glomerella cingulata*, mangoes 4680
Irish Republic 1358
*Leptosphaeria maculans*, rape 5117
*Leucostoma cinctum*, apricots 2230, 2971
*Macrophomina phaseolina*, chickpeas 3705
maize 1413
*Monilinia laxa*, peaches 3847, 5415, 7759
*Monographella nivalis*, wheat 8280
*Mycocentrospora acerina*, carrots 411
*Mycosphaerella arachidis*, groundnuts 8694
*Nectria radicicola*, *Panax pseudoginseng* 5592
oats 1379
*Oligoporus placenta*, *Pseudotsuga menziesii* 3166, 3991
pawpaws, postharvest decay 8661
*Penicillium*
oranges 5442
rice 8390
*Penicillium digitatum*, citrus 7795
*Penicillium expansum*, apples 2225
*Penicillium italicum*, citrus 7795
*Phaseolus vulgaris* 3480
*Phellinus noxius*, *Hevea brasiliensis* 5524-5525
*Phialophora cinerescens*, carnations 616
*Phoma medicaginis*
lucerne 2615
tomatoes 2615
*Phytophthora cactorum*, apples 2957, 6922
*Phytophthora cinnamomi*
avocados 2285
*Protea* 3997
*Rhododendron obtusum* 8810
*Phytophthora megasperma* f.sp. *medicaginis*, chickpeas 6800
*Phytophthora nicotianae* var. *parasitica*, sesame 7844
*Phytophthora palmivora*, cocoa 556
*Pinus*, damping off 601
*Pleospora betae*, sugarbeet 540-541
*Pleospora tarda*
lucerne 2615
tomatoes 2615
*Polymyxa betae*, sugarbeet 2332

**Biological control** *cont.*
diseases *cont.*
potatoes 6607
storage decay 7428
*Pseudocercosporella herpotrichoides*
cereals 8263-8264
wheat 275
*Pseudomonas plantarii*, rice 5230
*Pseudomonas solanacearum*, tomatoes 8544
*Pseudomonas syringae* pv. *syringae*, apricots 2971
*Pseudopeziza medicaginis*
lucerne 2615
tomatoes 2615
*Puccinia horiana*, chrysanthemums 8812
*Pyrenophora teres*, barley 286, 6685
*Pyrenophora tritici-repentis*, wheat 5878
*Pyricularia oryzae*, rice 5953, 8379
*Pythium*
cucumbers 449, 2216
maize 2068
*Phaseolus* 6783
sesame 1107
tomatoes 6869
tulips 618
*Pythium aphanidermatum* 6544
cucumbers 4606, 5371
peas 12
tobacco 4770
*Pythium myriotylum*, tobacco 4770
*Pythium ultimum*
cotton 569, 5515
cress 3469
cucumbers 450, 4603
peas 12, 228, 938
peat 746
soyabeans 938
sugarbeet 542, 3469, 3925
tomatoes 3771
wheat 8280
*Pythium ultimum* var. *sporangiiferum*
*Capsicum* 8583
*Celosia argentea* 8583
reviews 1355, 1970, 6383, 6595, 6605-6606
*Rhizoctonia solani*
*Agrostis stolonifera* var. *palustris* 1728
chickpeas 4497
cotton 569, 3114, 5515
cowpeas 7624
crops 1968
cucumbers 228, 1565, 2216, 3796
faba beans 6004
fenugreek 6350
lettuces 228
peas 2804
potatoes 401-402
rape 6233
rice 5953, 7554
soil 1968
tomatoes 438, 3771, 8558
*Vigna angularis* 6023
rice 5214, 6712
roots 118
*Rosellinia necatrix* 6544
*Sclerotinia minor*, lettuces 2875
*Sclerotinia sclerotiorum*
celery 3469, 8504
cucumbers 4604, 6134, 6901
lettuces 3469, 8504
*Phaseolus vulgaris* 1494, 2791
rape 6236
soyabeans 226, 2608
sunflowers 226, 1626, 2608, 7017
*Sclerotium cepivorum*, onions 423, 4549
soil 232, 1895, 5030, 5037, 5775-5776, 7352
soyabeans 1482, 2107
*Sphaerotheca fuliginea*, cucumbers 4604
*Sphaerotheca pannosa*, peaches 7757
*Streptomyces* 15
sugarbeet, storage decay 8712
terminology 4054
*Thielaviopsis basicola*, cotton 2484, 7074

**Biological control** *cont.*
diseases *cont.*
tomatoes 3480, 6608, 7683
trees, root rots 580
tulips, tip-burn 619
Uredinales, cereals 4305
*Uromyces appendiculatus*, *Phaseolus vulgaris* 5260
USA 1971
*Valsa mali*, apples 464, 7738
*Valsa paulowniae*, *Paulownia* 5548
vegetables 2609, 2614
postharvest decay 3471, 4282
storage decay 5840
*Verticillium dahliae*
aubergines 8540
*Capsicum* 441
cotton 1136
wheat 1379, 1482, 5776
*Xanthomonas campestris* pv. *cyamopsidis*, guar 2819, 4507
*Xanthomonas campestris* pv. *pruni*, peaches 3848
research 230
reviews 2442
weeds 3208, 4023, 4033-4034, 4894, 5612, 5620, 6353, 6361, 6365-6366, 6368, 7998, 8850
*Acacia saligna*, *Uromycladium tepperianum* 7993
*Aeschynomene virginica*
*Colletotrichum gloeosporioides* f.sp. *aeschynomene* 1189, 2425, 3210, 4185
fungi 8853
*Glomerella cingulata* 5619
*Amaranthus*, *Streptomyces* 8000
*Apocynum cannabinum*, *Stagonospora apocyni* 635
aquatic weeds, fungi 8859
biotechnology 3212
books 1761
*Carduus*, *Puccinia* 6359
*Carduus pycnocephalus*, *Puccinia cardui-pycnocephali* 2421
*Carduus thoermeri*, *Puccinia carduorum* 8858
*Cassia obtusifolia*, *Alternaria cassiae* 2432, 7994, 8187
*Chondrilla juncea*, *Puccinia chondrillina* 3207
*Cirsium vulgare*, *Puccinia cnici* 6360
*Colletotrichum*, reviews 7169
*Cryptostegia grandiflora*, *Marvalia cryptostegia* 6367
*Cyperus esculentus*, *Puccinia canaliculata* 4893, 7997
*Datura stramonium*
*Alternaria alternata* 7999
*Alternaria crassa* 1760
*Gibberella fujikuroi* 1762
*Digitaria*, *Streptomyces* 8000
*Eichhornia crassipes*, *Alternaria alternata* 5614
*Eleocharis kuroguwai*, fungi 7990, 8853
*Eupatorium trapezoideum*, *Mycovellosiella eupatorii-odorati* 2428, 7991
*Euphorbia heterophylla*, *Helminthosporium* 6364
fungi 4032
*Gutierrezia sarothrae*, *Puccinia grindeliae* 4895
*Heliotropium europaeum*
*Cercospora heliotropii-bocconii* 7167
*Uromyces heliotropii* 2429, 7167
*Hydrilla verticillata*, *Macrophomina phaseolina* 4028
*Ipomoea lacunosa*, *Colletotrichum capsici* 1188
Irish Republic 1358
*Malva pusilla*, *Colletotrichum gloeosporioides* f.sp. *malvae* 5615, 7992
microbial pesticides 8848
*Mikania micrantha*, *Basidiophora montana* 766
*Mimosa pigra*
fungi 4031

**Biological control** *cont.*
weeds *cont.*
*Mimosa pigra cont.*
*Sphaerulina mimosae-pigrae* 2430
mycoherbicides 7996
New South Wales 8846
*Orobanche crenata, Ulocladium atrum* 4030
*Papaver rhoeas, Pleospora papaveracea* 6362
*Parthenium hysterophorus*
*Puccinia abrupta* var. *parthenicola* 5616
*Puccinia melampodii* 5616
*Phytolacca americana, Phoma sorghina* 1766
*Prunus serotina, Chondrostereum purpureum* 5618, 8849
reviews 2422, 6354, 6595, 6606, 7168
rice 632
*Rottboellia cochinchinensis* 5613
*Sesbania exaltata, Colletotrichum truncatum* 6357, 8847
*Solanum nigrum, Alternaria alternata* 7999
*Sorghum halepense, Bipolaris sorghicola* 5621
*Striga hermonthica*
*Fusarium nygamai* 8851
*Glomus fasciculatum* 7295
*Taraxacum officinale, Sclerotinia sclerotiorum* 6356
USA 4022
*Xanthium italicum, Alternaria zinniae* 7995
*Xanthium occidentale*
*Alternaria zinniae* 7995
*Puccinia xanthii* 3211
*Xanthium spinosum, Colletotrichum orbiculare* 6358
**Biological control agents**
application 3222
bibliographies 7178
chitinase 8090
control 5644
development 1370, 3222, 4029, 5619, 8060
reviews 5638
documentation 1200
environmental impact
Europe 3220
USA 3220
formulations 3208, 3222
reviews 6387
immunodiagnosis 1690
interactions, soil fungi 1780
legislation 3218
Europe 3220
USA 3220
marketing, books 6380
molecular genetics, genetic engineering 6382
monitoring 659, 853
production 5799, 6579
quarantine 1767
registration, Netherlands 70
screening 147
survival 659, 669
soil 1897
sustainability 7181
***Bipolaris***
biochemistry, anthraquinones 3379
*Bromus inermis*, USSR 2755
***Bipolaris colocasiae***, *Avicennia officinalis*, West Bengal 8843
***Bipolaris heveae***
*Hevea brasiliensis*
control 1144
symptoms 1144
***Bipolaris sacchari***
*Panicum maximum*, Florida 3209
sugarbeet
screening 539
toxins 539
sugarcane
control 3083
Cuba 4722
Pakistan 3084
varietal reactions 4722
***Bipolaris sorghicola***
sorghum, genetics 1433
*Sorghum halepense*, biological control 5621
***Bipolaris zeae***
*Pennisetum clandestinum*
Argentina 2760
seeds 2760
taxonomy, teleomorph 4219
***Bipolaris zizaniae***, *Zizania aquatica*, biology 8394
**Birch** (*see Betula*)
**Birds,** pesticides, nontarget effects 8113
***Biscutella laevigata***
*Ramularia biscutellae*
Romania 7371
taxonomy 7371
**Bisol-2**
activity
*Fusarium*, wheat 3514
*Helminthosporium*, wheat 3514
**Bitertanol**
activity, apples 6916
control
*Botryosphaeria dothidea*, apples 4613
*Claviceps purpurea*, grasses 4451
*Crinipellis perniciosa*, cocoa 4747
*Phaseolus vulgaris*, diseases 5261
*Phomopsis amygdali*, peaches 4631
*Podosphaera leucotricha*, apples 6915, 8609
*Puccinia asparagi*, asparagus 8530
*Puccinia horiana*, chrysanthemums 4867
*Sphaerotheca macularis*, strawberries 7775
*Venturia inaequalis*, apples 6915
fungicide residues
apples 6919
*Capsicum* 1800
sour oranges 1800
fungicide tolerance, *Sphaerotheca macularis* 2245
seed treatment
rye 7436
wheat 7436
uptake, barley 5888
**Bitter gourds** (*see Momordica charantia*)
***Bivallum pilgerodendri***
*Fitzroya cupressoides*, taxonomy 592
*Libocedrus tetragona*, taxonomy 592
***Bivallum podocarpi***
*Podocarpus nubigenus*, taxonomy 592
*Podocarpus salignus*, taxonomy 592
***Bixa orellana***, *Nectria rigidiuscula*, Venezuela 3490
**Black cherries** (*see Prunus serotina*)
**Black currant reversion virus,** black currants, Russia 474
**Black currants** (*Ribes nigrum*)
black currant reversion virus, Russia 474
*Botrytis cinerea*, detection 6165
diseases
breeding 4635
control 6168
France 6168
*Septoria ribis*
biochemistry 4636
resistance 4636
*Sphaerotheca mors-uvae*
breeding 8627
control 5390
**Black gram** (*see Vigna mungo*)
**Black mustard** (*see Brassica nigra*)
**Black pepper** (*see Piper nigrum*)
**Black pine** (*see Pinus nigra*)
**Black spruce** (*see Picea mariana*)
**Blackberries** (*Rubus fruticosus*)
*Glomerella cingulata*, Venezuela 7764
*Pestalotiopsis longiseta*, taxonomy 4634
*Seimatosporium discosioides*, taxonomy 4634
**Blackeye cowpea mosaic potyvirus**
cowpeas
control 8467
serology 4500
transmission 8467
Yugoslavia 6027
Leguminosae, Taiwan 2776
serology 191
taxonomy 190-191
**Blasticidin-S,** control, *Pyricularia oryzae*, rice 5219
**Blueberries** (*see Vaccinium*)
***Blumeriella jaapii***
cherries
control 8623
forecasting 6161
Michigan 8623
models 6161
***Boehmeria nivea, Colletotrichum boehmeriae***, Jiangxi 8745
***Boerhavia diffusa,*** plant extracts, antiviral agents 7057
**Boletin,** activity, sugarbeet, diseases 535
***Boletopsis leucomelaena,*** mycorrhizas, anatomy 4971
***Boletus,*** forest trees, mycorrhizas 4961-4962
***Boletus luridus, Picea abies,*** mycorrhizas 3332
***Boletus pinicola, Pinus radiata,*** mycorrhizas 2502
**Bonavist beans** (*see Lablab purpureus*)
***Bondarzewia montana,*** forest trees, Taiwan 2378
**Books**
apples, storage decay 4608
avocados, diseases 6215
bacteria 1781
benomyl
environmental impact 8088
public health 8088
biological control 4043
diseases 7176
weeds 7176
biological control agents, marketing 6380
cereals, diseases 1198
*Colletotrichum* 7174
cotton
diseases 3109
disorders 3109
Cucurbitaceae, diseases 3784
forest trees
diseases 1773, 2375
fungi 5528
forests
acid rain 582
decline 582
diseases, handbooks 3123
fruit
diseases 7175
disorders 5628
fungi 3217
biotechnology 4902
cell walls 7312
ecology 2435
India 5629
Jammu and Kashmir 1901
fungicides 674, 7207
grain legumes, diseases 1198
grapes, diseases 4642
groundnuts, aflatoxins 7831
host parasite relationships 4905
lawns and turf, pesticides 5660
mycology 4048, 7172
mycoplasma-like organisms 3456
nut crops, disorders 5628
oilseed plants, diseases 2438
ornamental plants, pesticides 5660
ornamental woody plants, diseases 2375
pears, storage decay 4608
pesticide residues, UK 4067
pesticides 4076
analysis 4071
application 1222
disposal 3254
formulations 1222
information 5659
legislation 4077
new products 7204
public health 4068
registration 1223, 4077
regulation 1223, 5666
safety 5666, 7209
spraying 5672
standards 3255
structure activity relationships 4938
usage 5659, 7203, 8036
*Picea rubens*, decline 7942
plant diseases
biotechnology 6379
control 4045, 4904, 6381, 8020

**Books** *cont.*
plant diseases *cont.*
defence mechanisms 2437
epidemiology 4046
genetic engineering 2434
plant pathogens
Nematoda 4044
toxins, analysis 128
plant pathology 5630
molecular biology 2436
plant protection 6378
Russia 4041
USSR 4042
plantation crops, diseases 1773
plants
mineral deficiencies 8021-8022
mineral excess 8021-8022
*Pseudomonas*, molecular biology 8026
quarantine, Europe 1772
rice, *Pyricularia oryzae* 7542
soil solarization 4903
strawberries, diseases 5417
sugarbeet, diseases 1773
sugarcane, diseases 1773
sweet potatoes, diseases 6067
*Tilletia*, Romania 7177
trees, pesticides 5660
vegetables
diseases 2438, 4047
disorders 5627
virology 4237
weeds, biological control 1761
**Bordeaux mixture**
control
*Glomerella cingulata*, olives 7826
*Mycosphaerella*, groundnuts 1637
*Nectria rigidiuscula*, cocoa 3093
*Pestalosphaeria elaeidis*, coconuts 7024
*Piper nigrum*, diseases 7150
*Xanthomonas campestris* pv. *viticola*, grapes 2999
**Boric acid**, control, tomatoes, postharvest decay 6105
**Boron**
activity, *Pyrenophora graminea*, barley 5897
control, *Plasmodiophora brassicae* 2867
deficiency
broccoli 3757
mangoes 3025
sugarbeet 544
toxicity, mandarins 4678
***Botryodiplodia hypodermia***, *Ulmus pumila*, screening 8777
***Botryodiplodia theobromae***
*Annona squamosa*, Pakistan 3131
*Aralia*, Pakistan 3131
biochemistry, fatty acids 5026
*Brachychiton populneus*
California 608
control 608
roots 608
cassava
Brazil 6065
Colombia 6065
integrated control 6065
varietal reactions 1528
coconuts, Mexico 7022
*Colocasia antiquorum*
storage 3742
Uttar Pradesh 3742
cotton
control 5517
seeds 5517
dates
Nematoda 8658
Rajasthan 8658
*Dendrobium*, Assam 3400
*Eucalyptus*, Kerala 3966
*Garcinia mangosana*, Assam 3400
*Grevillea robusta*
insects 7928
Karnataka 7928
guavas
Bangladesh 1615
control 1615
*Hevea brasiliensis*
histopathology 2370
Malaysia 2370
seeds 2369-2370
***Botryodiplodia theobromae*** *cont.*
*Magnolia grandiflora*, Romania 3171
mandarins
Arunachal Pradesh 3016
insect damage 3016
mangoes
Bangladesh 6998
dieback 3022
Himachal Pradesh 3022
Indian Punjab 4681
postharvest decay 6998
*Mimosa pigra*
insects 2427
Northern Territory 2427
pawpaws, postharvest decay 7806
*Pithecellobium dulce*, Pakistan 3131
*Platanus occidentalis*
breeding 5540
USA 5540
*Syzygium cumini*, Tamil Nadu 1184
walnuts, storage 7808
***Botryosphaeria***
avocados
control 8662
New Zealand 512, 8662
postharvest decay 8662
kiwifruits, storage 3002
***Botryosphaeria berengeriana***
apples
environmental factors 6923
inoculum 6923
***Botryosphaeria berengeriana* f.sp. *persicae***
peaches
Japan 8624
symptoms 8624
***Botryosphaeria dothidea***
apples
control 3819, 4613
environmental factors 6924-6925
enzymes 5391
forecasting 4613
fruit 6149
isolates 6149
models 4613
North Carolina 6149
USA 3819
varietal reactions 6925
peaches
Georgia 4627
gummosis 4627
pistachios
California 7812
environmental factors 3042
irrigation 3042, 7812
***Botryosphaeria obtusa***
apples
control 3819
environmental factors 6925
USA 3819
varietal reactions 6925
grapes, control 2987
***Botryosphaeria ribis***
apples, Beijing 8611
*Quercus acutissima*, Manipur 3968
***Botryosphaeria stevensii***
hosts 2553
*Juniperus scopulorum*, Iowa 4822
*Quercus*, Italy 4802
*Quercus robur*
decline 7093
Germany 7093
Spain 2553
***Botrytis***
apples, storage 2221
cherries
control 7750
storage 7750
crops, control 5830
*Impatiens*
integrated control 7958
Maryland 7958
*Lilium*, Colombia 4873
onions, Kyushu 6840
potatoes, antagonists 2822
strawberries
control 3850
storage 3850, 5419
tulips, control 6346
***Botrytis allii***
biological control 7685
***Botrytis allii*** *cont.*
garlic
Poland 5305
symptoms 7663
Tamil Nadu 7663
*Gliocladium roseum*, antagonism 6072
laboratory tests, fungicides 3297
onions
antagonists 6072
biological control 4548
control 2175, 5826
culture media 5306
drought 6072
induced resistance 2861
storage 2861, 4548
physiology
abscisic acid 3381
cytokinins 3381
environmental factors 5798
host range 3381
*Trichoderma viride*, antagonism 6072
***Botrytis anthophila***
physiology
abscisic acid 3381
cytokinins 3381
host range 3381
***Botrytis byssoidea***, biological control 7685
***Botrytis cinerea***
*Acca sellowiana*
enzymes 5457
toxins 5457
*Acremonium alternatum*, antagonism 5829
apples
biological control 6150
control 1046
Kyushu 1575
postharvest decay 6150
storage 1046, 2220, 5392
aubergines
plant extracts 3762
plant growth regulators 7674
postharvest decay 3762
biochemistry
cell walls 5005
enzymes 4650, 5748, 5751, 5753-5754
polygalacturonase 741, 5752
biological control 7685
black currants, detection 6165
*Brassica*
biological control 3751
storage 3751
cabbages
antagonists 4553
biological control 6078
postharvest decay 6078
*Capsicum*
plant extracts 3762
postharvest decay 3762
chickpeas
Bangladesh 954, 5276
breeding 954
control 378
environmental factors 5275, 8460
hosts 2139
India 5276
Nepal 5276
reviews 960
survival 5275
Chinese cabbages, biological control 6079
crops
biological control 5828
control 7256
cucumbers
antagonists 5829
biological control 6135
control 4604, 5827, 6134-6135, 6446, 6451
Czechoslovakia 6134
epidemiology 5827
integrated control 5833
*Eleusine coracana*
Madhya Pradesh 2727
seeds 2727
elicitors, reviews 5750
faba beans
Hungary 8433
induced resistance 8432
overwintering 8433

***Botrytis cinerea*** *cont.*
faba beans *cont.*
seeds 7605
figs
Armenia 7009
Azerbaijan 7009
Republic of Georgia 7009
fruit, control 8095
fungicide tolerance 688, 6525, 6531, 7250, 8089
genetics 3299
genetics
analysis 5746
morphology 4202
mutants 5747
*Gerbera*
epidemiology 6327
immunodiagnosis 6343
spore dispersal 6327
*Gliocladium virens*, antagonism 5000
grapes
Australia 482
biochemistry 6183
biological control 6187
control 482, 2254, 2992, 2994, 4649, 5427, 6969, 7784, 8095
defoliation 2993
enzymes 4650, 6181-6182
experimental design 1072
forecasting 225
fungicide tolerance 6189-6190
Germany 6189
histology 6183
host parasite relationships 4650, 6182
integrated control 5833
Japan 6190
models 1072
phytoalexins 6182, 6186
plant extracts 6188
postharvest decay 2255, 2992, 5427
reviews 6968
screening 6185-6186
storage 2254, 7784
toxins 6185
varietal reactions 6183-6184
vectors 2995
Virginia 2993
winemaking 2255
greenhouse crops
biological control 3470
control 5827, 5831
epidemiology 5827
fungicide tolerance 5831
Turkey 5831
groundnuts, São Paulo 3908
host parasite relationships, reviews 5749-5750
interactions, Nematoda 7335
kiwifruits
biological control 7428, 7791
control 3864, 4656, 7792
storage 3001, 3864, 4656, 6195, 7428, 7792
laboratory tests
adjuvants 7239
antibiotics 4959-4960
carboxamides 6447
cymoxanil 4950
fungicides 1811, 3297, 4104, 5756, 7239
hydantoins 3289
*N*-phenylanilines 4108
prochloraz 2463
quinconazole 2463
triazoles 75
*Lilium*, USSR 2413
linseed
control 3892-3893
Germany 3045
seeds 6237
UK 5464, 8673
yield losses 5464
metabolism, isoflavones 4194
molecular genetics
enzymes 5748
fungicide tolerance 3376
mating types 3376
pathogenicity 5745
onions
control 6071
inoculum 6071

***Botrytis cinerea*** *cont.*
ornamental plants
climate 3168
control 3168, 7949
forecasting 3168
pears
control 5826
Himachal Pradesh 4619
histology 466
infection 466
storage 4619
peas
Belgium 7616
control 7615-7616
*Pelargonium hortorum*, fungicide tolerance 73
*Penicillium*, antagonism 5829
persimmons
Armenia 7009
Azerbaijan 7009
Republic of Georgia 7009
*Phaseolus coccineus*, seeds 4478
*Phaseolus vulgaris*
antagonists 5829
control 2121, 3295, 6446
rotations 8443
varietal reactions 8443
*Phoenix canariensis*, Italy 7955
physiology
abscisic acid 3381
cytokinins 3381
environmental factors 5798
fungicide tolerance 5757
host range 3381
pomegranates
Armenia 7009
Azerbaijan 7009
Republic of Georgia 7009
*Pseudomonas fluorescens*, antagonism 3751, 4553
rape
control 7815
insects 7815
raspberries
control 6167
detection 6165
France 6167
roses
biological control 2407
control 2407, 5560, 5832
epidemiology 6327
fungicide tolerance 5832
Greece 5832
plant growth regulators 6329
postharvest decay 5560
spore dispersal 6327
*Ruscus hypoglossum*
calcium 3170
control 3995
Israel 3995
postharvest decay 3995
susceptibility 3170
symptoms 3995
*Serratia*, antagonism 4553
*Serratia liquefaciens*, antagonism 3751
*Serratia plymuthica*, antagonism 3751
strawberries
Belgium 6173
biological control 478, 7428, 8629
breeding 6171
control 4639, 5420, 6173, 7774
forecasting 7772
integrated control 5833, 6950, 7767
Ohio 7772
reviews 7767
storage 4639, 7428
*Streptomyces griseoviridis*, hyperparasitism 4175
sugarbeet
biological control 8712
Japan 8712
storage 8712
sunflowers
control 4708, 8678
epidemiology 8678
infection 1095
seed treatment 6241
Yugoslavia 4708
tobacco
genetic transformation 5508, 8734
phytoalexins 5508, 8734

***Botrytis cinerea*** *cont.*
tobacco *cont.*
resistance 5508
tomatoes
biological control 6100
control 2197, 5832, 6099-6100
fungicide tolerance 5832
Greece 5832
integrated control 5833, 6870
plant growth regulators 6098, 7674
polyethylene film 2197
symptoms 6856
volatile compounds 6506
*Trichoderma*, antagonism 5829
*Trichoderma harzianum*, antagonism 4176
vegetables, control 8095
wheat
control 8287
UK 8287
***Botrytis diospyri***, persimmons, Republic of Georgia 4686
***Botrytis elliptica***
fungicide tolerance 688
*Lilium*, USSR 2413
***Botrytis fabae***
faba beans
biological control 4472, 7685
control 2787, 6450, 8256
forecasting 4473
induced resistance 8432
Jiangsu 4473
phytoalexins 7603
Poland 1489
rotations 1489
seeds 7605
varietal reactions 2787, 5255
***Botrytis tulipae***
biological control 7685
fungicide tolerance 688
**Botswana**
*Pennisetum americanum*, *Fusarium* 3505
sorghum, *Fusarium* 3505
**Bottle gourds** *(see Lagenaria siceraria)*
***Bougainvillea spectabilis***
plant extracts
antifungal agents 2813
antiviral agents 7057
**Boysenberries**, *Agrobacterium*, genetic transformation 6946
***Brachycaudus helichrysi***, transmission, potato Y potyvirus 1326
***Brachychiton populneus***
*Botryodiplodia theobromae*
California 608
control 608
roots 608
***Brachyelytrum erectum***, *Acremonium coenophialum*, host range 6753
***Brachypodium retusum***
*Glomus fasciculatum*
mycorrhizas
growth 2523
phosphorus 2523
***Bradysia impatiens***, transmission, *Pythium aphanidermatum* 8598
***Brassica***
*Albugo candida*, estimation 4554
*Alternaria brassicae*
selection 6231
toxins 6231
*Alternaria brassicicola*
biological control 3751
environmental factors 998
spore germination 998
storage 3751
*Botrytis cinerea*
biological control 3751
storage 3751
*Leptosphaeria maculans*
glucosinolates 2865
resistance 2865
*Plasmodiophora brassicae*
breeding 997
control 8514
resistance 997
UK 8514
*Pyrenopeziza brassicae*, conidia 6848
*Rhizoctonia solani*
control 6081
screening 1093

***Brassica*** *cont.*
*Xanthomonas campestris* pv. *campestris*
genetics 6849
Portugal 8516
varietal reactions 8516
***Brassica alba*** *(see Sinapis alba)*
***Brassica botrytis*** *(see* Cauliflowers)
***Brassica campestris, Fusarium oxysporum*** f.sp. *conglutinans,* antagonists 5312
***Brassica campestris*** **var.** ***napobrassica*** *(see* Swedes)
***Brassica campestris*** **var.** ***rapa*** *(see* Turnips)
***Brassica campestris*** **var.** ***rapifera,*** diseases, biological control 6544
***Brassica campestris*** **var.** ***sarson*** *(see* Sarson)
***Brassica gemmifera*** *(see* Brussels sprouts)
***Brassica hirta*** *(see Sinapis alba)*
***Brassica juncea*** *(see* Indian mustard)
***Brassica kaber*** *(see Sinapis arvensis)*
***Brassica napobrassica*** *(see* Swedes)
***Brassica napus*** *(see* Sarson)
***Brassica napus*** **var.** ***esculenta*** *(see* Swedes)
***Brassica napus*** **var.** ***napobrassica*** *(see* Swedes)
***Brassica napus*** **var.** ***oleifera*** *(see* Rape)
***Brassica napus*** **var.** ***rapifera*** *(see* Swedes)
***Brassica nigra,*** turnip mosaic potyvirus, transmission 4552
***Brassica oleracea***
*Alternaria brassicae*
seeds 3754
Victoria 3754
*Alternaria brassicicola*
seeds 3754
Victoria 3754
*Phytophthora porri,* isolates 3749
***Brassica oleracea*** **var.** ***botrytis*** *(see* Cauliflowers)
***Brassica oleracea*** **var.** ***capitata*** *(see* Cabbages)
***Brassica oleracea*** **var.** ***caulorapa*** *(see* Kohlrabi)
***Brassica oleracea*** **var.** ***gemmifera*** *(see* Brussels sprouts)
***Brassica oleracea*** **var.** ***gongylodes*** *(see* Kohlrabi)
***Brassica oleracea*** **var.** ***italica*** *(see* Broccoli)
***Brassica pekinensis*** *(see* Chinese cabbages)
***Brassica rapa*** **subsp.** ***rapa*** *(see* Turnips)
**Brazil**
Ascomycotina 772
*Capsicum*
seedborne fungi 2881
tomato spotted wilt tospovirus 4591
cassava, diseases 6065
citrus, citrus leprosis virus 5440
cocoa
*Crinipellis perniciosa* 550
*Moniliophthora roreri* 550
*Phytophthora* 550
*Eucalyptus,* diseases 8753
*Eucalyptus grandis*
*Mycosphaerella parkii* 5535
*Phyllosticta eucalyptorum* 5535
*Eugenia dysenterica, Phloeosporella kitajimae* 5045
*Eugenia lutescens, Phloeosporella flaviomoralis* 1924
*Euphorbia heterophylla, Helminthosporium* 6364
forest trees, diseases 8753
*Hevea brasiliensis, Microcyclus ulei* 5522
Leguminosae, viruses 183
maize, *Peronosclerospora sorghi* 886
*Mikania micrantha, Basidiophora montana* 766
oats, diseases 1379
oil palms
fatal yellows 7020
*Fusarium oxysporum* f.sp. *elaeidis* 4711
*Phaseolus vulgaris, Uromyces appendiculatus* 4479
*Pinus,* diseases 8753
plant diseases, physiology 6621
rice, *Pyricularia oryzae* 4427
*Solanum gilo,* seedborne fungi 2881
soyabeans, diseases 1482
tomatoes, seedborne fungi 2881
**Brazil** *cont.*
weeds, *Pyricularia oryzae* 4427
wheat
diseases 1379, 1482, 2633, 8283
*Pyricularia oryzae* 4427
Amazonas, *Hevea,* mycorrhizas 5701
Bahia, coconuts, *Catacauma torrendiella* 2320
Ceara, *Annona muricata,* viruses 5451
Goias, guar, *Xanthomonas campestris* pv. *cyamopsidis* 7158
Minas Gerais
oranges, bacteria 6213
sorghum
*Colletotrichum graminicola* 1436
*Puccinia purpurea* 1436
Para, *Euterpe oleracea, Idriella* 774
Parana
cereals
*Cochliobolus sativus* 5846
*Gibberella zeae* 5846
*Pyrenophora avenae* 5846
guar, *Xanthomonas campestris* pv. *cyamopsidis* 7158
*Pennisetum purpureum,* viruses 8395
tomatoes, tobacco mosaic tobamovirus 2885
Rio de Janeiro
fruit, fungicide residues 78
okras, seedborne fungi 6907
pineapples, copper deficiency 3027
vegetables, fungicide residues 78
Rio Grande do Sul
cereals
*Cochliobolus sativus* 5846
*Gibberella zeae* 5846
*Pyrenophora avenae* 5846
rice, mycorrhizas 6497
Rondônia, cocoa, *Crinipellis perniciosa* 4751, 7051
Santa Catarina
carrots, *Corticium rolfsii* 987
cassava, *Xanthomonas campestris* pv. *manihotis* 2171
*Eucalyptus viminalis,* mycorrhizas 4116
grapes, diseases 1066
*Phaseolus vulgaris,* diseases 6774
São Paulo
*Anthurium andreanum, Phytophthora citrophthora* 4005
*Campomanesia coerulea,* mycorrhizas 2520
citrus, *Xanthomonas campestris* pv. *citri* 504
groundnuts, *Botrytis cinerea* 3908
guar, *Xanthomonas campestris* pv. *cyamopsidis* 7158
*Hevea, Pseudocercospora heveae* 7079
*Hevea brasiliensis, Glomerella cingulata* 5526
maize, diseases 6698
oranges
bacteria 6213
decline 5437
*Phaseolus vulgaris*
*Alternaria* 6780
*Colletotrichum lindemuthianum* 367, 5261, 6778, 6780
diseases 5262
*Phaeoisariopsis griseola* 5261, 6780
*Uromyces appendiculatus* 5261
pigeon peas, *Cercospora* 2812
rice
*Cochliobolus miyabeanus* 5223
*Phoma sorghina* 6741
*Pyricularia oryzae* 331, 6722
*Saintpaulia ionantha, Phytophthora nicotianae* var. *parasitica* 4004
soyabeans
*Cercospora kikuchii* 6772
soybean mosaic potyvirus 8425
tomatoes, *Septoria lycopersici* 6871
***Bremia lactucae***
*Lactuca serriola,* Himachal Pradesh 3392
lettuces
Austria 4562
breeding 4560
control 4563-4564
***Bremia lactucae*** *cont.*
lettuces *cont.*
France 4564
genetics 811, 1005
host parasite relationships 811, 2874
molecular genetics 2605, 3759, 4561
races 4562
reviews 6083
varietal reactions 2873
***Bremia ovata,*** *Crepis japonica,* Himachal Pradesh 3392
***Brevennia rehi***
interactions, *Sarocladium oryzae,* rice 4439, 5224
transmission, *Sarocladium oryzae* 4433
***Brevibacterium***
antagonism
*Elsinoë ampelina* 815
*Rhizoctonia solani* 815
***Brevicoryne brassicae,*** transmission, turnip mosaic potyvirus 4552
***Brevipalpus phoenicis,*** transmission, citrus leprosis virus 5440
**Brinjal** *(see* Aubergines)
**Broad bean mottle bromovirus,** molecular genetics, nucleotide sequences 8217
**Broad bean stain comovirus**
faba beans, Syria 5988
Leguminosae, immunodiagnosis 4279
lentils, Syria 5988
*Trifolium,* immunodiagnosis 4279
**Broad bean wilt fabavirus,** globe artichokes, yield losses 6085
**Broad beans** *(see* Faba beans)
**Broccoli** *(Brassica oleracea* var. *italica)*
diseases
California 7229
control 7229
mineral deficiencies, boron 3757
pesticide residues, analysis 1226
*Pseudomonas marginalis*
fertilizers 1000
varietal reactions 1000
**Brome mosaic bromovirus**
*Aegilops cylindrica*
reservoir hosts 1190
Russia 1190
barley
Germany 862
host parasite relationships 5175
molecular genetics 5103, 5175
RNA 862
transmission 1372
*Chenopodium quinoa*
Germany 862
RNA 862
immunology, proteins 3430
*Lolium multiflorum,* South Africa 4446
molecular genetics
coat proteins 5080
genome analysis 6586
nucleotide sequences 5080
recombination 5095
replication 5094, 5104-5105
RNA 5094-5095, 5104-5105
translation 5815
oats
Siberia 4373
transmission 4373
wheat, Hungary 1382
**Bromuconazole,** development 7242
***Bromus,*** barley yellow dwarf luteovirus, susceptibility 926
***Bromus catharticus,*** maize dwarf mosaic potyvirus, South Africa 4446
***Bromus inermis***
diseases
control 2755
USSR 2755
mycorrhizas, phosphorus 1268
***Bromus secalinus,*** mycorrhizas, phosphorus 1268
***Bromus tectorum***
mycorrhizas
herbicides 7308
Utah 7308
**Bronopol**
control, *Xanthomonas campestris* pv. *malvacearum* 1138
fungicide tolerance, *Gibberella cyanogena* 981

**Brunei Darussalam,** *Rhizophora apiculata,* decay fungi 3974
**Brussels sprouts** (*Brassica oleracea* var. *gemmifera*)
*Mycosphaerella brassicicola*
control 8515
UK 8515
*Pyrenopeziza brassicae*
control 8515
UK 8515
***Bulbouncinula bulbosa,*** *Koelreuteria elegans,* Taiwan 7373
**Bulgaria**
barley
*Erysiphe graminis* 6682
*Pyrenophora graminea* 1410
*Capsicum*
*Fusarium equiseti* 1559
*Fusarium oxysporum* 1559
*Fusarium solani* 1559
*Chamerion angustifolium, Seimatosporium kriegerianum* 6554
grapes, viruses 4644
lucerne, *Pseudopeziza medicaginis* 1471
plums, diseases 2974
strawberries, diseases 6947
walnuts, cherry leaf roll nepovirus 1619
wheat, *Pseudocercosporella herpotrichoides* 6668
***Bupalus piniarus,*** interactions, *Sydowia polyspora, Pinus* 1713
**Bupirimate**
control
*Podosphaera leucotricha,* apples 5390
*Sphaerotheca mors-uvae,* black currants 5390
fungicide residues, health hazards 6436
**Burkina Faso**
millets, *Sclerospora graminicola* 5935
plant protection 8257
***Bursera simaruba,*** plant extracts, antifungal agents 5698
**Burundi**
cassava
*Aspergillus clavatus* 7656
*Penicillium verrucosum* var. *cyclopium* 7656
rice
*Magnaporthe grisea* 7527
*Pseudomonas fuscovaginae* 7527
***Busseola fusca***
interactions
*Gibberella fujikuroi,* maize 5915
*Stenocarpella maydis,* maize 5915
**Cabbages** (*Brassica oleracea* var. *capitata*)
*Alternaria brassicicola,* antagonists 4553
*Botrytis cinerea*
antagonists 4553
biological control 6078
postharvest decay 6078
diseases
biological control 6607
integrated control 223
Russia 6607
*Erwinia carotovora* subsp. *atroseptica*
biochemistry 1541
diagnosis 1541
fungicide residues, determination 72, 6435
internal rot, nitrogen 4557
mycoplasma-like organisms, detection 1955
*Mycosphaerella brassicicola,* testing 7665
pesticide residues, Germany 2472
*Plasmodiophora brassicae*
assessment 5311
genetics 6845
Japan 5311
rotations 4556
*Pseudomonas cichorii,* phytoalexins 5315
storage decay
diagnosis 1364
latent infections 1364
Russia 1363
tipburn, nitrogen 4557
turnip mosaic potyvirus, breeding 2864
*Xanthomonas campestris*
preservation 1001
seeds 1001
varietal reactions 2182
**Cabbages** *cont.*
*Xanthomonas campestris* pv. *campestris*
isoenzymes 2870
varietal reactions 2870
**Cacao** (*see* Cocoa)
**Cacao swollen shoot badnavirus**
cocoa
biological control 7873
breeding 549
detection 8714
induced mutations 549
transmission 7873
**Cactaceae**
*Erwinia cacticida*
pathogenicity 8
taxonomy 8
**Cadmium,** activity, *Corticium rolfsii,* barley 289
**Cadmium chloride,** activity, *Myrothecium roridum,* soyabeans 6771
***Caesalpinia eriostachys***
mycorrhizas
growth 4152
Mexico 4152
***Cajanus cajan*** (*see* Pigeon peas)
**Calcium**
activity
*Phaseolus vulgaris,* root rots 8441
*Phytophthora cinnamomi,* avocados 2278
control
*Botrytis cinerea, Ruscus hypoglossum* 3170
pears, storage decay 5396
**Calcium chloride**
activity, wheat, root rots 251
control, grapes, storage decay 2988
**Calcium cyanamide,** control, *Plasmodiophora brassicae, Brassica* 8514
**Calcium polysulfide,** control, mangoes, diseases 7801
***Calendula officinalis, Puccinia lagenophorae,*** Germany 7426
***Callistemon citrinus,*** plant extracts, antifungal agents 2481
***Callistephus chinensis***
*Fusarium oxysporum* f.sp. *callistephi,* varietal reactions 4002
mycoplasma-like organisms, vectors 8235
***Calluna vulgaris, Hymenoscyphus ericae,*** mycorrhizas, nuclei 1279
***Calonectria avesiculata,*** IMI descriptions 7357
***Calonectria colhounii* var. *macroconidialis***
IMI descriptions 7357
taxonomy, new variety 7374
***Calonectria crotalariae,*** soyabeans, Jiangsu 364
***Calonectria gracilis***
IMI descriptions 7357
taxonomy, new species 7374
***Calonectria ilicicola***
*Eucalyptus*
Kerala 4797
susceptibility 4797
taxonomy 7385
***Calonectria kyotensis***
*Rhododendron japonicum,* Korea Republic 8759
*Ziziphus sativa,* Korea Republic 8759
***Calonectria pteridis***
IMI descriptions 7357
taxonomy, new species 7374
***Calonectria pyrochroa,*** taxonomy 7385
***Calonectria quinqueseptata***
*Eucalyptus*
isolates 7910
Kerala 4797, 7910
susceptibility 4797
*Eucalyptus grandis*
environmental factors 3135
Kerala 3135
nurseries 3135
*Eucalyptus tereticornis*
survival 3967
toxins 8770
*Hevea brasiliensis,* Sri Lanka 578
***Calonectria spathiphylli***
*Heliconia*
Florida 7382
taxonomy 7382
***Calonectria spathulata,*** IMI descriptions 7357
***Caloscypha fulgens,*** Coniferae, seeds 5549
**Caltan,** control, *Pseudoperonospora cubensis,* melons 3800
***Camarosporium flaccidum,*** grapes, control 2987
***Camellia***
camellia yellow mottle virus
grafting 2401
transmission 2401
*Ciborinia camelliae*
control 8808
Louisiana 8808
*Glomerella cingulata*
control 2403
grafting 2403
*Pestalotiopsis guepini*
characteristics 5562
China 5562
viruses, New Zealand 8806
***Camellia sasanqua,*** *Glomerella cingulata,* control 607
***Camellia sinensis*** (*see* Tea)
**Camellia yellow mottle virus**
*Camellia*
grafting 2401
transmission 2401
**Cameroon**
*Colocasia esculenta, Pythium myriotylum* 418
rice, diseases 5209
*Xanthosoma sagittifolium,* root rots 4536
***Campomanesia coerulea,*** *Gigaspora,* mycorrhizas, São Paulo 2520
***Camptomeris albizziae***
*Albizia lebbek*
control 8780
Haryana 8780
Uttar Pradesh 8780
***Camptomeris leucaenae,*** *Leucaena leucocephala,* Assam 3976
**Canada**
adjuvants, legislation 8080
*Avena fatua, Puccinia graminis* 5905
barley, *Puccinia graminis* 5847
Coniferae, diseases 5549
crops, diseases 5118
forests
acid rain 3130
diseases 3962, 8755
*Malva pusilla, Colletotrichum gloeosporioides* f.sp. *malvae* 7992
oats
*Puccinia coronata* 5904, 8338
*Puccinia graminis* 5905
plant pathogens, quarantine 3322, 4114
potatoes
potato leaf roll luteovirus 8479
potato Y potyvirus 2153, 2829
rape
*Leptosphaeria maculans* 1625
*Sclerotinia sclerotiorum* 519
tobacco, potato Y potyvirus 2829
weeds, biological control 4033, 6366
wheat
*Puccinia graminis* 5847
*Puccinia recondita* 2004
*Xylaria* 7377
Alberta
*Alstroemeria,* root rots 5584
*Ammobium alatum,* mycoplasma-like organisms 4861
*Onobrychis viciifolia, Fusarium* 2098
*Pinus banksiana,* Uredinales 2393
*Pinus contorta,* Uredinales 2393
safflower, *Pythium* 1631
British Columbia
apples
*Coprinus psychromorbidus* 1581
replant disease 5393
*Arbutus menziesii,* Pyrenomycetes 7988
carrots, *Thielaviopsis basicola* 6064
cherries
*Pseudomonas* 3843
twisted leaf 6162
forest trees, diseases 7083
*Gaultheria shallon,* Pyrenomycetes 7988

**Canada** *cont.*
British Columbia *cont.*
lucerne
*Verticillium albo-atrum* 1472
viruses 4454
*Picea, Inonotus tomentosus* 1717
*Pinus contorta*
*Ophiostoma clavigerum* 2392
stain fungi 2392
*Populus, Chondrostereum purpureum* 6296
potatoes, *Phytophthora infestans* 6051
*Pseudotsuga menziesii, Leptographium wageneri* 6324
*Thuja plicata,* mycorrhizas 4143
*Vaccinium parvifolium,* Pyrenomycetes 7988
weeds
beet western yellows luteovirus 2423
potato leaf roll luteovirus 2423
wheat, *Puccinia recondita* 5861
Manitoba
cereals, flame chlorosis 6693
*Echinochloa crus-galli,* flame chlorosis 6355
*Lactarius* 8132
peas, pea seed-borne mosaic potyvirus 6011
*Setaria viridis,* flame chlorosis 6355
sunflowers, *Sclerotinia sclerotiorum* 1629
triticale, flame chlorosis 6693
*Ulmus americana, Ceratocystis ulmi* 8776
wheat
*Fusarium* 1402
*Gibberella zeae* 1402
*Leptosphaeria nodorum* 5874
*Puccinia recondita* 5861
New Brunswick
forests, diseases 2374, 8761
lupins, *Pleiochaeta setosa* 1477
*Populus, Chondrostereum purpureum* 6296
potatoes, potato Y potyvirus 394
Newfoundland, forests, diseases 7082
Northwest Territories
*Lactarius* 8132
*Pinus banksiana,* Uredinales 2393
*Pinus contorta,* Uredinales 2393
Nova Scotia
apples, *Venturia inaequalis* 1576, 6144
forests, diseases 2374, 8761
lupins, *Pleiochaeta setosa* 1477
Ontario
*Acer saccharum,* decline 3143
*Ammophila breviligulata, Glomus lamellosum* 726
apples, *Venturia inaequalis* 6144
apricots, *Nectria radicicola* 6141
barley, *Rhynchosporium secalis* 5898
Coniferae
*Cylindrocarpon* 8786
*Fusarium* 8786
cucumbers, *Penicillium oxalicum* 2215
forest trees
*Armillaria obscura* 3124
diseases 1680-1686, 3121
*Heterobasidion annosum* 3124
*Inonotus tomentosus* 3124
root rots 3124
grapes, tomato spotted wilt tospovirus 5424
*Juglans cinerea, Sirococcus clavigignenti-juglandacearum* 586
peaches, *Nectria radicicola* 6141
pears
*Nectria radicicola* 6141
stony pit 4620
*Phaseolus vulgaris*
*Alternaria alternata* 7610
*Colletotrichum lindemuthianum* 6785
*Picea mariana,* mycorrhizas 8126
*Pinus banksiana,* mycorrhizas 8126
soil, *Glomus lamellosum* 726

**Canada** *cont.*
Ontario *cont.*
spinach, *Colletotrichum dematium* 8518
strawberries, fungi 1064
tomatoes, *Alternaria solani* 6862
wheat, *Puccinia recondita* 5861
Quebec
forests
diseases 2376, 8758
mycorrhizas 2494
lucerne, *Aphanomyces euteiches* 7577
potatoes
*Streptomyces* 1522
*Streptomyces acidiscabies* 1522
*Streptomyces scabies* 1522
Saskatchewan
flax, diseases 3472
lentils, *Ascochyta fabae* f.sp. *lentis* 4488
lucerne, *Coprinus psychromorbidus* 347
peas, diseases 3472
rape, *Sclerotinia sclerotiorum* 8670
wheat
*Cochliobolus sativus* 272
diseases 3472
*Erysiphe graminis* 1388
*Leptosphaeria nodorum* 269
*Mycosphaerella graminicola* 269
*Puccinia recondita* 5861
Yukon, forest trees, diseases 7083
**Canary Islands,** dates, *Podosordaria ingii* 2287
***Canavalia ensiformis,*** seedborne fungi, Goa, Daman and Diu 6030
***Canavalia gladiata,*** seedborne fungi, Goa, Daman and Diu 6030
***Candida,*** control, *Botrytis cinerea,* apples 6150
***Candida guilliermondii***
citrus
Argentina 502
postharvest decay 502
***Candida stellata***
citrus
Argentina 502
postharvest decay 502
***Cannabis sativa*** (*see* Hemp)
**Canola** (*see* Rape)
**Cantaloupes** (*see* Melons)
***Capnodium citri***
limes
control 6990
Mexico 6990
***Capnodium mangiferae***
mangoes
Himachal Pradesh 5447
varietal reactions 5447
***Capnodium ramosum***
mangoes
Himachal Pradesh 5447
varietal reactions 5447
***Capsicum***
*Alternaria alternata*
fruit 5346
plant extracts 3762
plant growth stage 5346
postharvest decay 3762
*Alternaria longissima*
seeds 7702
Uttar Pradesh 7702
*Bacillus,* growth 227
bell pepper dwarf mosaic virus, biochemistry 6884
*Botrytis cinerea*
plant extracts 3762
postharvest decay 3762
*Cercospora capsici,* varietal reactions 5348
*Colletotrichum capsici*
control 2204, 6126, 8584
West Bengal 8584
*Colletotrichum coccodes,* Korea Republic 7704
*Colletotrichum dematium,* seeds 1560
*Corticium rolfsii,* mycorrhizas 8585
cucumber mosaic cucumovirus
control 6119
genetic transformation 6118
histopathology 3782

***Capsicum*** *cont.*
cucumber mosaic cucumovirus *cont.*
plant extracts 6119
screening 6880, 8573
symptoms 5343
varietal reactions 6879, 8576
*Diaporthe phaseolorum*
Haryana 3783
seeds 3783
*Didymella lycopersici*
Haryana 3783
seeds 3783
diseases
breeding 6877-6878
control 4270, 4904
integrated control 1359
Italy 1359
Spain 4270
*Erwinia carotovora*
Costa Rica 442
insects 442
storage 8578
temperature 8578
*Erwinia chrysanthemi*
Costa Rica 442
insects 442
fungicides, mobility 1800
*Fusarium equiseti,* Bulgaria 1559
*Fusarium oxysporum,* Bulgaria 1559
*Fusarium oxysporum* f.sp. *capsici,* screening 6121
*Fusarium solani,* Bulgaria 1559
*Glomerella cingulata*
China 6124
control 7701
*Glomus fasciculatum*
mycorrhizas
bacteria 718
growth 4144
phosphorus 717, 4144
*Glomus macrocarpum*
mycorrhizas
bacteria 718
growth 4144
phosphorus 717, 4144
varietal reactions 5736
leaf curl
Nigeria 5342
transmission 5342
varietal reactions 2905
viruses 5342
*Leveillula taurica*
breeding 2908
genetics 2908
Puerto Rico 2205
*Macrophomina phaseolina*
fruits 1022
Maharashtra 1022
mycorrhizas
diseases 8585
growth 92
nutrients 92
*Myrothecium verrucaria*
control 1558
seeds 1558
Uttar Pradesh 1558
paprika mild mottle virus, nucleotide sequences 7698
pepper hausteco virus
inoculation 8575
Mexico 8575
pepper mild mottle tobamovirus
amino acids 4592
nucleotide sequences 7698
pathotypes 6117, 8539
screening 6881
Spain 6117, 8539
pepper vein banding virus, transmission 5344
*Phytophthora,* intercropping 2202
*Phytophthora capsici*
breeding 5345, 8580
control 7700-7701, 8581
cultural methods 2203
environmental factors 7705
genetics 440, 2907, 5345, 8580
host parasite relationships 4285
Korea Republic 1021, 7703
mating types 7703
Nematoda 5821
oospores 7705

***Capsicum*** *cont.*
*Phytophthora capsici cont.*
physiology 7699
population dynamics 1020
screening 6125
Shaanxi 2203
soil water 1020, 5347
susceptibility 8582
varietal reactions 1021, 1557
Xinjiang 8581
*Phytophthora infestans*
pathogenicity 7681
Taiwan 7681
*Phytophthora nicotianae*, Uttar Pradesh 8236
plant extracts, antiviral agents 6886
potato Y potyvirus
genetics 6882-6883
Himachal Pradesh 6120
screening 8573
strains 6120
*Pseudomonas*
Costa Rica 442
growth 227
insects 442
*Pseudomonas fluorescens*
Costa Rica 442
insects 442
*Pseudomonas solanacearum*, screening 6127
*Pythium*, environmental factors 1303
*Pythium ultimum* var. *sporangiiferum*, biological control 8583
seedborne fungi
Brazil 2881
control 1023
tobacco mosaic tobamovirus
breeding 8574
detection 1009
enzymes 2906
histopathology 3782
plant extracts 6886
seeds 1009, 1019
soil 1556
Turkey 1009
Yugoslavia 8574
tomato mosaic tobamovirus
pathotypes 6117, 8539
Spain 6117, 8539
tomato spotted wilt tospovirus
Brazil 4591
Poland 5075
serology 5075
susceptibility 4591
transmission 5075
*Vermicularia capsici*, China 6124
*Verticillium dahliae*
control 441
host parasite relationships 6123, 8579
isolates 6123
screening 8573
soil solarization 6887
testing 6122
varietal reactions 2201, 6887, 8579
viruses
China 1974
control 8577
cultural methods 1974
Hebei 8577
Hunan 8577
Karnataka 6885
Malaysia 1974
*Xanthomonas campestris*, varietal reactions 2909
*Xanthomonas campestris* pv. *vesicatoria*
Barbados 1010
control 1010, 1025, 6128
culture media 433
genetics 440
histopathology 6888
host parasite relationships 5349, 6888
infection 1024
Italy 2911
molecular genetics 1011, 5349, 6089
pathogenicity 1011
races 1010
resistance 6089
strains 433
Taiwan 6128
varietal reactions 1025, 2910
wind damage 1024

***Capsicum*** *cont.*
*Xanthomonas campestris* pv. *vesicatoria cont.*
yield losses 1025
yellow vein
hosts 3491
transmission 3491
**Captaf**, control, *Rhizoctonia solani*, carnations 4866
**Captafol**
activity
*Chalara paradoxa*, *Raphia* 4784
*Corticium rolfsii* 7865
*Fusarium pallidoroseum* 4640
*Koleroga noxia* 7866
soil 88
control
*Alternaria*, *Brassica napus* 999
*Camptomeris albizziae*, *Albizia lebbek* 8780
*Colletotrichum orbiculare*, watermelons 1035
*Fusarium*, asparagus 1007
*Fusarium solani*, cowpeas 3709
*Glomerella cingulata*, cloves 3197
*Leptosphaeria nodorum*, wheat 6660
*Macrophomina phaseolina*, guavas 7006
*Myrothecium verrucaria*, *Capsicum* 1558
*Nectria galligena*, apples 6148
peaches, diseases 6164
*Phytophthora nicotianae* var. *parasitica*, tomatoes 8557
*Pseudomonas mori*, mulberries 6953
*Pseudoperonospora cubensis*, melons 2920
*Pyricularia oryzae*, rice 3644
*Rhizoctonia solani*, rough lemons 4670
*Taphrina deformans*, nectarines 469
*Ustilago scitaminea*, sugarcane 6257
fungicide residues, tomatoes 435
seed treatment
*Coriandrum sativum* 8828
*Echinochloa frumentacea* 2726
safflower 4710
**Captan**
activity
*Alternaria alternata* 686
*Chalara paradoxa*, *Raphia* 4784
*Fusarium pallidoroseum* 4640
*Macrophomina phaseolina* 111
maize 7245
peaches, phylloplane fungi 2242
*Phytophthora capsici* 7700
*Rhizopus oryzae* 6116
control
*Alternaria porri*, onions 4541
apples
scald 3830
storage decay 2961
*Colletotrichum orbiculare*, watermelons 1035
cotton, seedborne fungi 5517
*Diplodia rosarum*, roses 4855
*Gloeodes pomigena*, apples 6914
*Glomerella cingulata*, *Camellia* 2403
groundnuts, diseases 7032
*Macrophomina phaseolina*, *Phaseolus vulgaris* 6786
maize, seedborne organisms 5912
*Nectria galligena*, apples 2958, 6148
*Penicillium oxalicum*, maize 4399
*Phytophthora drechsleri*, cucumbers 7720
*Pseudomonas mori*, mulberries 6953
*Puccinia asparagi*, asparagus 8530
*Pyricularia oryzae*, rice 330
*Rhizoctonia solani*
*Phaseolus vulgaris* 6779, 6786
rough lemons 4670
*Schizothyrium pomi*, apples 6914
*Sclerotium cepivorum*, garlic 2859
soyabeans, seedborne fungi 6765
*Taphrina deformans*, nectarines 1060
*Vigna mungo*, diseases 3708
fungicide residues, apples 7735
fungicide tolerance, *Botrytis cinerea* 5831

**Captan** *cont.*
seed treatment
chickpeas 2136
cucumbers 2216
*Echinochloa frumentacea* 2726
garlic 2859
groundnuts 3068
maize 4399, 8348
peas 6013, 7614
*Phaseolus vulgaris* 3689
safflower 4710
soyabeans 6765, 7595
sugarcane 3083
watermelons 3799
**Carambola** (*see Averrhoa carambola*)
**Carbathiin**, control, *Rhizoctonia solani*, peas 2804
**Carbendazim**
activity
adjuvants 7239
*Botrytis cinerea* 7239
*Cladobotryum dendroides* 8838
cucumber mosaic cucumovirus, *Capsicum* 6119
*Fusarium* 1588
*Fusarium pallidoroseum* 4640
guavas, wilt 7805
*Koleroga noxia* 7866
*Macrophomina phaseolina* 111
*Pennisetum americanum* 2462
*Pesalotiopsis funerea* 8793
*Pestalotiopsis psidii* 6216
*Phytophthora capsici* 2483
*Septoria apiicola* 7239, 7248
soil 88
sunflowers 2462
*Vigna mungo*, nodulation 5279
adsorption, soil 4947
control
*Acremonium*, melons 7721
*Alternaria alternata*, chickpeas 968
*Aspergillus niger*, groundnuts 3904
bananas, postharvest decay 494
*Botrytis cinerea*
crops 5833
cucumbers 6135
grapes 2994
greenhouse crops 5831
peas 7616
*Ruscus hypoglossum* 3995
strawberries 7774
*Cercospora canescens*; *Vigna radiata* 7629
*Cercospora destructiva*, *Euonymus* 4858
*Cladobotryum verticillatum*, *Agaricus bitorquis* 5603
*Cladosporium herbarum*, rice 5226
*Colletotrichum capsici*, *Capsicum* 2204, 8584
*Colletotrichum orbiculare*, watermelons 1035, 2916
*Corticium rolfsii*, potatoes 7650
cotton, boll rot 5514
*Diplodia rosarum*, roses 4855
*Dothiorella gregaria*, *Populus* 8775
*Erysiphe betae*, sugarbeet 3918
*Erysiphe graminis*, barley 3576
*Erysiphe polygoni*
*Coriandrum sativum* 7152
*Vigna mungo* 5281
*Vigna radiata* 383
*Fusarium culmorum*, wheat 2682
*Fusarium oxysporum* f.sp. *phaseoli*, *Phaseolus vulgaris* 5259
*Fusarium pallidoroseum*, *Samanea saman* 4821
*Gibberella fujikuroi*, rice 4432
*Gibberella zeae*, wheat 1403, 6674
*Glomerella cingulata*
*Ficus religiosa* 8781
limes 8649
mangoes 6999
groundnuts, diseases 7032, 7829
*Litchi chinensis*, storage decay 3028
*Macrophomina phaseolina*, guavas 7006
mandarins, postharvest decay 501
*Mycosphaerella arachidis*, groundnuts 3073

**Carbendazim** *cont.*
control *cont.*
*Mycosphaerella berkeleyi*, groundnuts 3073, 7841
*Mycosphaerella cruenta*
*Vigna mungo* 5281
*Vigna radiata* 7629
*Mycosphaerella pinodes*, peas 7616
*Nectria galligena*, apples 2958, 6148
onions, storage decay 2860
peas, diseases 2129
*Penicillium aurantiogriseum*, mangoes 3021
*Pestalosphaeria elaeidis*, coconuts 7024
*Pestalotiopsis versicolor*, cloves 7151
*Phaeoisariopsis griseola, Phaseolus vulgaris* 8445
*Phoma*, rape 4703
*Phoma asparagi*, asparagus 5321
pigeon peas, seedborne fungi 3706
*Pseudocercospora abelmoschi*, okras 5385
*Pseudocercospora dendrobii, Dendrobium* 7143
*Puccinia arachidis*, groundnuts 3073, 7841
*Puccinia melanocephala*, sugarcane 1643
*Pyricularia oryzae*, rice 3644
*Rhizoctonia solani*
carnations 4866
fenugreek 6350
rice 917, 5945
rough lemons 4670
*Rhynchosporium secalis*, barley 3585
*Sclerotinia sclerotiorum*
rape 6235
sunflowers 1627, 3897-3898
*Sclerotium cepivorum*, garlic 3747
*Septoria chrysanthemella*, chrysanthemums 8811
*Septoria divaricatae, Phlox* 5574
sesame, diseases 8696
sugarbeet, storage decay 7861
sugarcane, diseases 1110
sunflowers, diseases 4708
*Ulocladium chartarum*
apples 2962
pawpaws 2962
*Uromyces appendiculatus, Phaseolus vulgaris* 1493
*Ustilaginoidea virens*, rice 3649
*Ustilago scitaminea*, sugarcane 3081
*Ustulina deusta, Hevea brasiliensis* 2368
*Vigna mungo*, diseases 3708
*Xanthomonas oryzae* pv. *oryzae*, rice 5945
*Xanthomonas oryzae* pv. *oryzicola*, rice 5945
fungicide residues
apples 2219
cereals 6577
fruit 6577
grapes 2994
mangoes 6999
pears 2219
peas 4100
*Vaccinium* 2979
wine 6577
*Ziziphus mauritiana* 4100
fungicide tolerance
*Botrytis cinerea* 2994, 3299, 5831, 6190
*Elsinoë ampelina* 8634
*Gibberella cyanogena* 981
*Neurospora crassa* 6444
*Pseudocercosporella herpotrichoides* 2628
seed treatment
aubergines 8572
cereals 827
chickpeas 2136, 6022, 7621
cowpeas 2147
*Eucalyptus tereticornis* 6292
groundnuts 1103, 3068, 8690
lentils 7618
*Phaseolus* 6783
*Phaseolus vulgaris* 8445
rice 4428, 5964

**Carbendazim** *cont.*
seed treatment *cont.*
safflower 3057, 4710
*Vigna mungo* 2815
*Vigna radiata* 7629
*Vigna umbellata* 6026
watermelons 3799
wheat 248, 2666, 2668, 6651, 7456
soil treatment 2816
toxicity, earthworms 1246, 7208
**Carbofuran,** control, *Gibberella fujikuroi* var. *subglutinans, Pinus taeda* 4839
**Carbon dioxide**
activity
*Alternaria cassiae* 6369
*Alternaria crassa* 6369
**Carbonyl compounds,** activity, *Pythium* 730
**Carboxamides**
activity
*Botrytis cinerea* 6447
*Rhizoctonia solani* 6447
**Carboxin**
activity
barley 6677
*Macrophomina phaseolina* 111
control
*Cochliobolus miyabeanus*, rice 2736
*Cochliobolus sativus*, wheat 2646, 4310
*Colletotrichum capsici, Capsicum* 2204
*Corticium rolfsii*
chickpeas 232, 4497
groundnuts 232
lentils 232
*Fusarium*, wheat 4310
*Fusarium culmorum*, wheat 2682
*Fusarium oxysporum*
chickpeas 232
groundnuts 232
lentils 232
*Fusarium oxysporum* f.sp *ciceris*, chickpeas 4497
*Ganoderma boninense*, oil palms 2314-2315
*Gibberella fujikuroi*, rice 2736
groundnuts, diseases 7032
*Leptosphaeria maculans*, rape 518
*Macrophomina phaseolina, Phaseolus vulgaris* 6786
*Myrothecium verrucaria, Capsicum* 1558
*Pyrenophora graminea*, barley 2041
*Pyricularia*, wheat 2646
*Rhizoctonia solani*
chickpeas 232, 4497
cotton 3112
groundnuts 232
lentils 232
*Phaseolus vulgaris* 6786
rough lemons 4670
*Sclerotium cepivorum*, garlic 2859
*Ustilago segetum* var. *tritici*, wheat 2010
fungicide tolerance, *Ustilago zeae* 1289, 8350
seed treatment
*Bromus inermis* 2755
cereals 244, 827
garlic 2859
maize 8348
peas 244
rice 2736, 5964
wheat 2666, 3538, 6651, 7456
soil treatment 7153
**Cardamine chlorotic fleck virus**
*Cardamine lilacina*
characteristics 8841
New South Wales 8841
***Cardamine lilacina***
cardamine chlorotic fleck virus
characteristics 8841
New South Wales 8841
turnip yellow mosaic tymovirus
molecular genetics 8839
New South Wales 8839
**Cardamom mosaic potyvirus,** cardamoms, yield losses 4010
**Cardamoms** (*Elettaria cardamomum*)
cardamom mosaic potyvirus, yield losses 4010

**Cardamoms** *cont.*
*Erwinia chrysanthemi*, Papua New Guinea 1746
nilgiris necrosis virus
Kerala 3195
Tamil Nadu 3195
plant oils, antifungal agents 1834
*Rhizoctonia solani*, Nematoda 8825
***Carduus***
*Puccinia cardui-pycnocephali*
biological control 6359
isoenzymes 6359
*Puccinia carduorum*
biological control 6359
isoenzymes 6359
*Puccinia carthami*
biological control 6359
isoenzymes 6359
***Carduus pycnocephalus***
diseases 2421
biological control 2421
Europe 2421
*Puccinia cardui-pycnocephali*, biological control 2421
***Carduus thoermeri***
*Puccinia carduorum*
biological control 8858
Virginia 8858
***Carex rostrata***
*Phaeostalagmus rossicus*
Russia 1756
taxonomy 1756
**Caribbean**
bananas, *Mycosphaerella musicola* 3008
cocoa, diseases 548
*Pinus*, fungi 7936
***Carica papaya*** (*see* Pawpaws)
**Carnation mottle carmovirus**
carnations, cytoplasmic inclusions 7960
*Chenopodium amaranticolor*, cytoplasmic inclusions 7960
molecular genetics
cloning 1338
coat proteins 1338
**Carnation ringspot dianthovirus**
molecular genetics
movement proteins 5072
nucleotide sequences 5072
water, Germany 788
**Carnation vein mottle potyvirus**
carnations
characteristics 4000
Shanghai 4000
**Carnations** (*Dianthus caryophyllus*)
carnation mottle carmovirus, cytoplasmic inclusions 7960
carnation vein mottle potyvirus
characteristics 4000
Shanghai 4000
*Cladosporium echinulatum*, Hawaii 6341
diseases
control 5567
New Zealand 5567
*Fusarium oxysporum* f.sp. *dianthi*
biological control 612-613, 615, 617, 5580, 7138
green manures 3184
nitrogen 6345
phytoalexins 5581
selection 8813
varietal reactions 7135, 7137
*Heterosporium echinulatum*
Colombia 3182
control 3183
*Phialophora cinerescens*
biological control 616
Latvia 616
*Pseudomonas caryophylli*, host parasite relationships 2411
*Rhizoctonia solani*, control 4866
***Carpinus betulus,*** *Russula ochroleuca*, mycorrhizas, morphology 6478
**Carrot red leaf luteovirus,** carrots, Israel 7655
**Carrot yellow leaf virus,** X ray diffraction 5067
**Carrots** (*Daucus carota*)
*Agrobacterium tumefaciens*
host parasite relationships 413, 3233
infection 413
proteins 3233

**Carrots** *cont.*
*Alternaria dauci*
control 7631
fungicide tolerance 412
strains 412
varietal reactions 412, 1525
*Alternaria radicina*
antagonists 2169
biological control 6608
storage 2169
barley yellow dwarf luteovirus, genetic transformation 3738
carrot red leaf luteovirus, Israel 7655
*Cercospora carotae*
control 7631
environmental factors 4531
varietal reactions 1525
*Corticium rolfsii*
control 987
Santa Catarina 987
diseases
control 8241
edaphic factors 5299
France 5299
*Erwinia carotovora* subsp. *atroseptica*, testing 8498
*Erwinia carotovora* subsp. *carotovora*, testing 8498
*Erysiphe heraclei*, New York 409
*Fusarium solani*
Italy 4532
postharvest decay 4532
*Gibberella avenacea*
Italy 4532
postharvest decay 4532
*Gigaspora margarita*
mycorrhizas
enzymes 1862
phosphorus 1862
root exudates 1862
*Mycocentrospora acerina*
biological control 411
Norway 2170
pesticide residues, analysis 1226
pesticides, toxicity 7214
*Pythium aphanidermatum*, elicitors 2168
*Sclerotinia sclerotiorum*
antagonists 2169
control 410
storage 410, 2169
seedborne fungi, Poland 2852
storage decay
diagnosis 1364
latent infections 1364
Russia 1363
*Thielaviopsis basicola*
British Columbia 6064
temperature 6064
wounding 6064
tobacco mosaic tobamovirus
host parasite relationships 3935
inhibitors 3935
*Xanthomonas campestris* pv. *carotae*, varietal reactions 1525
***Carthamus tinctorius*** (*see* Safflower)
***Carya illinoensis*** (*see* Pecans)
***Carya pecan*** (*see* Pecans)
**Caryophyllaceae,** *Glomus intraradices*, mycorrhizas, lifespan 1267
***Caryota mitis***
*Pseudomonas avenae*
control 8821
Florida 8821
**Cashews** (*Anacardium occidentale*)
*Glomus intraradices*, mycorrhizas, soil temperature 8134
*Oidium anacardii*
control 4036
Malawi 4036
Tanzania 1624
plant extracts, antifungal agents 1832
**Cassava** (*Manihot esculenta*)
African cassava mosaic bigeminivirus
planting date 6832
reviews 1527
spacing 6832
transmission 6832
Uganda 6832
*Aspergillus clavatus*
Burundi 7656
toxins 7656
**Cassava** *cont.*
*Botryodiplodia theobromae*, varietal reactions 1528
*Colletotrichum gloeosporioides* f.sp. *manihotis*, inoculation 6833
diseases
Brazil 6065
breeding 6831, 8472
Colombia 6065
integrated control 6065
quarantine 988
Zaire 6831
Indian cassava mosaic bigeminivirus
characteristics 414
reviews 1527
*Penicillium verrucosum* var. *cyclopium*
Burundi 7656
toxins 7656
postharvest decay, control 8500
viruses, genetic engineering 8499
*Xanthomonas campestris* pv. *manihotis*
Colombia 2854
control 2854
reviews 1529
Santa Catarina 2171
screening 2171
Togo 6066
varietal reactions 6066
**Cassava common mosaic potexvirus,** cassava, genetic engineering 8499
***Cassia auriculata,*** plant extracts, antifungal agents 2813
***Cassia fistula,*** plant extracts, antifungal agents 6462
***Cassia mimosoidea,*** mycorrhizas, Korea Republic 7303
***Cassia obtusifolia***
*Alternaria cassiae*
biological control 3208, 7994, 8187
induced resistance 2432
phytoalexins 7994
***Cassia occidentalis***
*Pseudocercospora sieberiana*
Andhra Pradesh 7384
taxonomy 7384
***Castanea dentata***
*Cryphonectria parasitica*
breeding 8779
hypovirulence 7013
***Castanea mollissima***
*Pestalotiopsis osiridis*
China 1308
taxonomy 1308
***Castanea sativa*** (*see* Chestnuts)
***Castanopsis,*** mycorrhizas, screening 4129
**Castor beans** (*see Ricinus communis*)
***Casuarina cunninghamiana,*** mycorrhizas, New South Wales 7297
***Casuarina equisetifolia,*** *Trichosporium vesiculosum*, mycorrhizas, diseases 5541
***Catacauma,*** taxonomy 1913
***Catacauma torrendiella***
coconuts
Bahia 2320
control 2320
**Catalogues,** fungi, collections 3390
***Catharanthus roseus***
*Colletotrichum dematium*, Florida 6340
mycoplasma-like organisms
detection 2596
DNA probes 1953, 4265, 8234
Italy 4265
membranes 4264
polysaccharides 4264
serology 7132
Sudan 7132
transmission 1612, 3855, 6338
ultrastructure 4264
*Pythium aphanidermatum*
elicitors 1878
enzymes 1878
soil solarization 4869
varietal reactions 4869
viruses, Andhra Pradesh 5572
wound tumour virus
isolation 8223
molecular genetics 8223
yellows
anatomy 1349
control 5108
***Catharanthus roseus*** *cont.*
yellows *cont.*
fluorescence microscopy 1350
mycoplasma-like organisms 1349-1350, 5108, 5591
Republic of Georgia 5591
***Cattleya***
odontoglossum ringspot tobamovirus, Poland 4874
*Tulasnella asymetrica*, mycorrhizas, carbohydrates 7311
**Cauliflower mosaic caulimovirus**
*Arabidopsis thaliana*
ecotypes 1938
host parasite relationships 1938
movement 4242
resistance 4242
Chinese cabbages
mixed infections 995
ultrastructure 995
crystallization 1333
detection 5099
molecular genetics
coat proteins 2588
DNA binding proteins 5090
gene expression 806, 1943-1945
movement proteins 1947
nucleotide sequences 6591, 8214
transmission 806, 6591
vectors 5099
**Cauliflowers** (*Brassica oleracea* var. *botrytis*)
*Fusarium solani*, environmental factors 6847
*Peronospora parasitica*
control 3753
postharvest decay 3753
*Plasmodiophora brassicae*
breeding 7664
control 2868
rotations 4556
Victoria 2868
*Pseudomonas syringae* pv. *maculicola*
control 8517
UK 8517
varietal reactions 8517
*Sclerotinia sclerotiorum*
antagonists 8510
control 8512
fertilizers 8512
Indian Punjab 8512
wilt
rhizosphere fungi 1539
root exudates 1539
*Xanthomonas campestris* pv. *campestris*
amino acids 1003
enzymes 5316
proteins 1003
varietal reactions 1003, 5316
***Cavariella aegopodii,*** transmission, carrot red leaf luteovirus 7655
***Cavendishia pubescens***
*Phomopsis*
Colombia 1757
toxins 1757
***Cayratia corniculata***
*Sphaerotheca cayratiae*
taxonomy 6561
Zhejiang 6561
***Cecidophyopsis ribis,*** transmission, mycoplasma-like organisms 475
**Cedar pine** (*see Pinus cembra*)
***Celaenodendron mexicanum,*** plant extracts, antifungal agents 6465
**Celery** (*Apium graveolens*)
fungicide residues, determination 72
*Sclerotinia sclerotiorum*, biological control 3469, 8504
*Septoria apiicola*
adjuvants 6603
control 6603
inoculation 2183
storage decay, control 3758
***Celosia argentea,*** *Pythium ultimum* var. *sporangiiferum*, biological control 8583
***Celosia argentea* var. *cristata,*** plant extracts, antiviral agents 791
***Cenangium acicolum***
*Pinus*, Liaoning 3155
*Pinus koraiensis*, Liaoning 2394

***Cenangium ferruginosum*, forest trees, Slovenia 5529**
***Cenococcum geophilum***
culture media 6472
laboratory tests, pesticides 4124
molecular genetics
introns 8161
RNA 8161
*Pinus taeda*, mycorrhizas 6477
*Quercus myrsinaefolia*, mycorrhizas 4130
*Quercus rubra*, mycorrhizas 697
sclerotia 703
***Centaurea cyanus*, *Sclerotinia sclerotiorum*, India 4021**
***Centaurea diffusa*, *Puccinia jaceae* var. *diffusa*, Washington 636-637**
***Centaurea maculosa*, *Gibberella avenacea*, toxins 4896**
***Centaurea repens*, *Puccinia acroptili*, Washington 637**
**Central America**
geminiviruses, evolution 1940
integrated pest management, bibliographies 651
*Solanum*, *Synchytrium endobioticum* 980
***Cephalocereus senilus*, phytoalexins, elicitors 6352**
**Cephalosporins**, activity, *Macrophomina phaseolina* 689
***Cephalosporium***
*Eichhornia crassipes*, Pakistan 8845
watermelons, control 3799
***Cephalosporium maydis*, maize, fertilizers 4398**
***Cephalosporium sacchari*, laboratory tests, thiazole fungicides 1816**
***Ceratobasidium oryzae-sativae***
production, antibiotics 1836
rice
infection 8370
Iran 1461
sclerotia 916
soil amendments 916
spread 7533
strains 8389
survival 8389
symptoms 7533
varietal reactions 1461
soil, survival 916
***Ceratocystiopsis***
identification, keys 1909
taxonomy, DNA 5046
***Ceratocystiopsis minima***
*Pinus caribaea*
Cuba 7935
insects 7935
***Ceratocystiopsis proteae*, conidia 7326**
***Ceratocystis***
biochemistry, enzymes 6508
identification, keys 1909
molecular genetics, DNA 7370
*Quercus*, Slovakia 6293
*Quercus robur*
decline 7093
Germany 7093
***Ceratocystis bruneociliata*, *Pinus sylvestris*, host parasite relationships 6307**
***Ceratocystis coerulescens***
physiology, melanins 4788
*Quercus cerris*, Italy 2380
***Ceratocystis fagacearum*, *Quercus*, control 1699**
***Ceratocystis fimbriata***
biochemistry, lysis 1870
*Platanus acerifolia*, toxins 7108
*Platanus occidentalis*
breeding 5540
USA 5540
sweet potatoes
control 416
resistance 417
respiration 417
Shaanxi 416
***Ceratocystis fimbriata* f.sp. *platani***
*Platanus*
control 3978
Italy 7955
*Platanus acerifolia*, strains 4823
***Ceratocystis paradoxa***
coconuts
Jamaica 5468
***Ceratocystis paradoxa* *cont.***
coconuts *cont.*
Mexico 7022
*Phoenix canariensis*, Italy 7955
sugarcane
budding 4723
reviews 2330
varietal reactions 4723
***Ceratocystis picea*, *Larix leptolepis*, infection 3165**
***Ceratocystis seticollis***
*Pinus caribaea*
Cuba 7935
insects 7935
***Ceratocystis ulmi***
laboratory tests, inhibitors 1880
molecular genetics, restriction fragment length polymorphism 5017
morphology, lipoxygenase 7103
toxins 4814
*Ulmus*
control 7102
karyotypes 6297
reviews 7102
Spain 7102
varietal reactions 3122
*Ulmus americana*
integrated control 8776
Manitoba 8776
toxins 3142
vectors 8776
*Ulmus minor*, Italy 7955
***Cercospora***
Africa 125
*Amaranthus*, Nepal 5976
*Eleusine coracana*
Madhya Pradesh 2727
seeds 2727
India 6552
maize
enzymes 5191
toxins 5191
pigeon peas, São Paulo 2812
soyabeans
control 6765
Mexico 6765
seeds 6765
taxonomy 5042, 6552
toxins 5739
wheat, Russia 2024
***Cercospora albizziae***
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
***Cercospora angolensis***
citrus
Africa 125
Angola 125
***Cercospora arachidicola* (*see Mycosphaerella arachidis*)**
***Cercospora asparagi*, asparagus, Colombia 2878**
***Cercospora atylosiae*, *Atylosia villosa*, West Bengal 753**
***Cercospora averrhoae*, West Bengal 754**
***Cercospora benghalensis*, *Commelina benghalensis*, West Bengal 753**
***Cercospora beticola***
sugarbeet
biochemistry 3092
breeding 1123
control 1122, 2335, 3295, 3923-3924, 4730, 6446, 8713
France 1122-1123
Italy 2335, 3922-3924
Poland 4730
Rajasthan 8711
reviews 1650
selection 6264
toxins 7860
Ukraine 8704
varietal reactions 2335, 3922, 4730, 8702, 8704, 8710-8711
***Cercospora canescens***
*Vigna angularis*
Heilongjiang 4502
varietal reactions 4502
*Vigna mungo*
control 3708
Himachal Pradesh 3708
***Cercospora canescens* *cont.***
*Vigna radiata*
control 7629
Orissa 5278
screening 5278
Uttar Pradesh 7629
***Cercospora capsici*, *Capsicum*, varietal reactions 5348**
***Cercospora carotae***
carrots
control 7631
environmental factors 4531
varietal reactions 1525
***Cercospora carthami***
safflower
Iran 7822
seeds 7822
***Cercospora coffeicola***
coffee
control 7862
Karnataka 7862
***Cercospora destructiva***
*Euonymus*
control 4858
culture 4858
environmental factors 4858
***Cercospora fabae***
faba beans
Poland 1489
rotations 1489
***Cercospora fusimaculans*, sorghum, Tanzania 4404**
***Cercospora guineensis*, West Bengal 754**
***Cercospora heliotropii-bocconii***
*Heliotropium europaeum*
Australia 7167
biological control 7167
***Cercospora hydrangeae*, Himachal Pradesh 7356**
***Cercospora hydroleae*, *Hydrolea zeylanica*, West Bengal 753**
***Cercospora ipomoeae*, sweet potatoes, Assam 5780**
***Cercospora kikuchii***
soyabeans
biology 5241
Cuba 5241
DNA 1484
environmental factors 3678, 8428
liming 6772
potassium 6772
São Paulo 6772
spore germination 3678
toxins 1484, 8428
*Vigna umbellata*, Sikkim 8470
***Cercospora leptadeniana***
*Leptadenia*
India 6552
taxonomy 6552
***Cercospora menthicola*, India 3402**
***Cercospora musae*, bananas, varietal reactions 492**
***Cercospora nicotianae***
*Physalis angulata*
alternative hosts 4763
Zaire 4763
*Physalis pubescens*
alternative hosts 4763
Zaire 4763
tobacco
alternative hosts 4763
pathogenesis-related proteins 2350
Zaire 4763
***Cercospora osirisae***
*Echinodorus osiris*
Florida 773
taxonomy 773
***Cercospora personata* (*see Mycosphaerella berkeleyi*)**
***Cercospora populina*, *Populus deltoides*, India 3984**
***Cercospora punicae*, pomegranates, biology 2274**
***Cercospora rautensis*, preservation 3415**
***Cercospora ricinella*, *Ricinus communis*, control 2326**
***Cercospora sojina***
soyabeans
assessment 5994
biochemistry 7591
control 5995

***Cercospora sojina*** *cont.*
soyabeans *cont.*
resistance 3676
varietal reactions 7591
yield losses 5995
***Cercospora solani*****,** Himachal Pradesh 7356
***Cercospora sorghi***
sorghum
genetics 1428
Tanzania 4404
varietal reactions 1441
***Cercospora zeae-maydis***
Himachal Pradesh 7356
maize
breeding 5922
crop residues 2715
Ohio 2715
testing 7508
USA 5922
***Cercospora zebrina***
*Trifolium repens*
assessment 7582
epidemiology 4457
North Carolina 2096, 7582
***Cercospora zonata***
faba beans
Poland 1489
rotations 1489
***Cercosporella herpotrichoides*** *(see Pseudocercosporella herpotrichoides)*
***Cercosporidium diervillae***
*Lonicera maackii*
China 5787
taxonomy 5787
**Cercosporin,** activity, soyabeans, seedborne fungi 365
**Cercropin,** activity, crops, bacteria 1962
**Cereals**
*Agrobacterium tumefaciens*
phenolic compounds 6394
virulence 6394
barley yellow dwarf luteovirus
alternative hosts 4298
Croatia 3494
Idaho 820
models 4299
Morocco 3495, 4298
reservoir hosts 3495
reviews 821
strains 4298
transmission 820, 3495, 4298-4299
UK 4299
vectors 3494
*Cochliobolus sativus*, toxins 7438
copper, deficiency 2631
diseases
Africa 8257
Arkansas 7434
assessment 4295
Belgium 6624
books 1198
breeding 1978, 8259
computer analysis 136
control 236, 240, 3500, 3502, 8096, 8098, 8102, 8257
Denmark 239
epidemiology 2626
forecasting 138, 235, 239
models 236-237, 240
Netherlands 236
resistance 222
rotations 245
seed treatment 244, 827, 8265-8267
seeds 4295
set-aside 7440
Siberia 245
soil bacteria 1959
Spain 235
Sweden 1352
UK 8265-8266
USSR 827, 4295
varietal reactions 7434
*Erysiphe graminis*
evolution 3501
France 3501
fungicide tolerance 1376
races 3501
fungi
ecology 1983
storage 1983
**Cereals** *cont.*
fungicide residues
analysis 7258
determination 4304, 6577
fungicides, application 4111
*Fusarium*
New Zealand 3499
Russia 3504
toxins 3499
*Gaeumannomyces graminis*
control 6626
environmental factors 6626
isolates 822
manganese 6626
nucleotide sequences 822
Hyphomycetes
air spora 4217
Asia 4217
Kazakhstan 4217
mycorrhizas
environmental factors 1850
fertilizers 1850
soil bacteria 1959
*Pseudocercosporella herpotrichoides*
antagonists 8263-8264
control 7443
Denmark 7446
detection 7446
Europe 8261
France 7443
fungicide tolerance 8261
immunodiagnosis 5848
reviews 825
*Pseudomonas fuscovaginae*, reviews 2630
*Puccinia coronata*
DNA 1982
races 1982
*Puccinia graminis*
DNA 1982
races 1982
*Puccinia recondita*
DNA 1982
races 1982
seedborne fungi
control 7439, 8268
UK 8268
seedborne organisms, UK 6420
storage decay
control 1378
inoculum 7445
sampling 3492
seeds 1378, 3492
storage fungi, reviews 5128
viruses
Italy 2620
reviews 2620
*Xanthomonas*, taxonomy 6412
*Xanthomonas campestris* pv. *undulosa*
detection 828
seeds 828
***Cerebella andropogonis*****,** antagonism, *Claviceps sorghi* 893
***Ceriops decandra***
*Pestalotiopsis versicolor*
physiology 8842
West Bengal 8842
***Cerotelium*****,** Leguminosae, taxonomy 362
***Cerotelium fici***
figs
hyperparasitism 6196
Oman 6196
mulberries, enzymes 480
*Verticillium lecanii*, hyperparasitism 6196
***Ceuthospora lauri*****,** *Eucalyptus grandis*, South Africa 1151
***Ceutorhynchus napi*****,** interactions, *Leptosphaeria maculans*, rape 7815
***Ceutorhynchus pallidactylus*****,** interactions, *Leptosphaeria maculans*, rape 7815
**CGA 173506**
fungicide tolerance, *Sclerotinia fuckeliana* 4956
seed treatment, cereals 8267
**CGA 80000,** antifungal properties 4103
**CH100,** control, vegetables, diseases 6604
***Chaetochalara bulbosa*****,** Himachal Pradesh 7356
***Chaetomella***
*Quercus robur*
decline 7093
Germany 7093
***Chaetomium***
biological control, reviews 1355
fodder plants, storage 1466
***Chaetomium globosum***
antagonism, *Rhizoctonia solani* 4441
bamboos, histopathology 7984
preservation 3415
***Chaetomium indicum*****,** laboratory tests, plant oils 8119
***Chaetomium trilaterale*** **var.** ***diporum*****,** antagonism, *Sclerotinia sclerotiorum* 6522
***Chaetothyrium*****,** mulberries, West Bengal 479
***Chalara ovoidea***
*Quercus petraea*, Germany 7911
*Quercus robur*, Germany 7911
***Chalara paradoxa***
*Raphia*
control 4784
Nigeria 4784
***Chamaecyparis lawsoniana***
*Phytophthora cinnamomi*
nutrient solutions 7948
spread 7948
zoospores 7948
***Chamaecyparis obtusa***
canker
fungi 4851
Japan 4851
***Chamaecyparis thyoides***
*Mycoleptodiscus atromaculans*
New Jersey 1174
taxonomy 1174
***Chamaemelum nobile*****,** bacteria, France 5590
***Chamaenerion angustifolium*** *(see Chamerion angustifolium)*
***Chamerion angustifolium***
*Armillaria mellea*, reservoir hosts 4035
*Armillaria ostoyae*, reservoir hosts 4035
fungi, biological control 5612
*Seimatosporium kriegerianum*
Bulgaria 6554
taxonomy 6554
**Chamomile** *(see Chamaemelum nobile)*
***Cheiranthus***
bacteria
latent infections 7125
tissue culture 7125
***Chenopodium album***
*Ascochyta hyalospora*, toxins 2426
*Pseudomonas syringae* pv. *tomato*, toxins 1789
***Chenopodium amaranticolor***
carnation mottle carmovirus, cytoplasmic inclusions 7960
cucumber mosaic cucumovirus, control 5466
sowbane mosaic sobemovirus, transmission 1942
***Chenopodium quinoa***
apple chlorotic leafspot virus, purification 1347
beet necrotic yellow vein furovirus
infection 803
molecular genetics 803
brome mosaic bromovirus
Germany 862
RNA 862
grapevine fanleaf nepovirus
immunodiagnosis 5066
satellite RNA 5066
prunus necrotic ringspot ilarvirus, detection 1583
sowbane mosaic sobemovirus, transmission 1942
**Cherries** (***Prunus avium*** and ***P. cerasus***)
*Blumeriella jaapii*
control 8623
forecasting 6161
Michigan 8623
models 6161
*Botrytis*
control 7750
storage 7750
decline
aetiology 5409
Michigan 5409
epirus cherry virus, characteristics 2976
*Glomerella cingulata*
control 6160
Yugoslavia 6160

**Cherries** *cont.*
*Gnomonia erythrostoma*
control 7751
rain 7751
Spain 7751
*Monilinia fructicola*
control 7750
storage 7750
*Mucor*
control 7750
storage 7750
mycoplasma-like organisms
Sichuan 4622
susceptibility 5407
*Penicillium*
control 7750
storage 7750
prune dwarf ilarvirus, immunodiagnosis 6140
prunus necrotic ringspot ilarvirus, detection 1583, 5408
*Pseudomonas*, British Columbia 3843
*Pseudomonas syringae* pv. *morsprunorum*
control 1058
edaphic factors 5409
epidemiology 1059
Michigan 5409
Nematoda 5409
testing 1059
varietal reactions 1059, 1586
*Pseudomonas syringae* pv. *syringae*
edaphic factors 5409
Hungary 2241
ice nucleation 2241
Michigan 5409
Nematoda 5409
testing 4624
varietal reactions 1586
replant disease, control 5410
rickettsia-like organisms, detection 2970
*Stigmina carpophila*
flavanols 2931
histochemistry 2931
Jammu and Kashmir 3842
yield losses 3842
storage decay
control 7750
Jammu and Kashmir 7752
twisted leaf
British Columbia 6162
RNA 6162
Washington 6162
viruses
characteristics 4623, 5406
detection 4607
India 4607
transmission 4623
X-disease
mycoplasma-like organisms 8622
New York 8622
**Cherry leaf roll nepovirus**
molecular genetics
nucleotide sequences 7906
RNA 3452
walnuts
Bulgaria 1619
detection 1619, 5460
**Chestnuts** (*Castanea sativa*)
air pollution, Romania 3171
*Apiognomonia errabunda*
genetics 3133
strains 3133
*Cryphonectria parasitica*
biological control 3887, 8664
breeding 2290
China 2292
Connecticut 7810
control 3040, 6228
Czechoslovakia 1695
genetic engineering 3040
host parasite relationships 650
hypovirulence 1622, 3040, 3887, 6226, 6228, 8664
Italy 4795, 6227-6228
population genetics 2292
protoplasts 4695
reviews 3887
Switzerland 1620, 6223
USA 2290, 2292, 3040
varietal reactions 7810
**Chestnuts** *cont.*
*Cryphonectria parasitica cont.*
vegetative compatibility groups 6227
Virginia 8782
virulence 3041
viruses 6226
*Pestalotia*, Republic of Georgia 5532
*Phytophthora cambivora*, breeding 6224
*Phytophthora cinnamomi*, breeding 6224
**Chickpeas** (*Cicer arietinum*)
*Alternaria alternata*
control 968
Maharashtra 968
*Ascochyta rabiei*
control 2809, 6801, 7621
culture media 3703
epidemiology 2135
genetics 955
Himachal Pradesh 6799
hosts 2140
Idaho 2135
inoculation 3704
Iran 6801
Italy 4496
Pakistan 2138
phytoalexins 215
races 2138
reviews 959
screening 3702, 4491-4492, 6016, 6018, 6799
sowing date 2137
Syria 5274
teleomorph 2135
toxins 4495
Tunisia 1479
Turkey 2137
varietal reactions 2137-2138, 4496, 5274, 6801
Washington 2135
bean leaf roll luteovirus
Madhya Pradesh 2134
Spain 4490
yield losses 2806
beet western yellows luteovirus, Spain 4490
*Botrytis cinerea*
Bangladesh 954, 5276
breeding 954
environmental factors 5275, 8460
hosts 2139
India 5276
Nepal 5276
reviews 960
survival 5275
*Corticium rolfsii*
biological control 232
control 6022
India 232
integrated control 4497
screening 7619
cucumber mosaic cucumovirus, Spain 4490
diseases
Andhra Pradesh 6798
breeding 374
control 377-378
Ethiopia 377
genetic resources 8244
India 2099
integrated control 379
Myanmar 2133
soil density 376
varietal reactions 2099, 6798
fungicides, biochemistry 4489
*Fusarium oxysporum*
biological control 232
India 232
*Fusarium oxysporum* f.sp. *ciceris*
Bangladesh 954
Bihar 6796
breeding 954
control 7621
host parasite relationships 3700
integrated control 4497
reviews 958
screening 6017, 6796-6797
selection 3701
soil water 2808
toxins 3701
*Fusarium solani* f.sp. *pisi*, soil water 2808
**Chickpeas** *cont.*
*Glomus versiforme*, mycorrhizas, yields 1864
*Macrophomina phaseolina*
biological control 3705, 6019
control 7621
histopathology 4493
Myanmar 2141
Nematoda 956, 3705, 6019, 7620
nitrogen fixation 7620
screening 6017
susceptibility 4494
variation 2141
varietal reactions 4494
mycorrhizas
growth 2508
pesticides 2529
phosphorus 2508
plant development 98
*Nectria haematococca*
molecular genetics 6020-6021
phytoalexins 215, 6020-6021
virulence 6021
*Phytophthora megasperma* f.sp. *medicaginis*, biological control 6800
*Pythium ultimum*, soil water 2808
*Rhizoctonia solani*
biological control 232
India 232
integrated control 4497
physiology 8461
varietal reactions 8461
*Sclerotinia sclerotiorum*, control 7621
seed treatment
growth 2136
seed germination 2136
seedborne fungi
control 2807
nitrogen fixation 957
*Thielaviopsis basicola*, soil water 2808
*Verticillium*
Indian Punjab 2142
pathogenicity 2142
viruses
control 375
epidemiology 375
**Chicory** (*Cichorium intybus*)
diseases, control 4904
*Erwinia carotovora* subsp. *odorifera*, taxonomy 3761
*Erwinia chrysanthemi*
enzymes 4292
pathogenicity 4292
pesticides, Netherlands 7668
stubby root, aetiology 7672
*Thielaviopsis basicola*
infection 2877
ultrastructure 2877
tomato spotted wilt tospovirus
Italy 2876
symptoms 2876
transmission 2876
**Chile**
Coniferae, mycorrhizas 5702
faba beans, *Rhizoctonia solani* 2115
forest trees, diseases 7085
fruit, pesticide residues 2459
pears, *Nectria galligena* 6152
pesticides, legislation 4091
potatoes
*Coleosporium senecionis* 2831
*Cymadothea* 2831
disorders 2850
*Rhizobium* 2831
*Spongospora subterranea* 2831
viruses 7636
raspberries
*Phytophthora citricola* 8626
*Phytophthora citrophthora* 8626
squashes, *Phytophthora capsici* 2214
wheat, *Gaeumannomyces graminis* var. *tritici* 5159
**Chillies** (*see Capsicum*)
**Chimaphilla umbel,** activity, cucumber mosaic cucumovirus 5466
**China**
asparagus, *Phoma asparagi* 5321
barley
barley mild mosaic bymovirus 2028
barley yellow mosaic bymovirus 2028
*Camellia*, *Pestalotiopsis guepini* 5562

**China** *cont.*
*Castanea mollissima, Pestalotiopsis osiridis* 1308
*Cercosporidium* 5787
chestnuts, *Cryphonectria parasitica* 2292
citrus
citrus tristeza closterovirus 3870
*Fusarium solani* 5443
cotton, *Fusarium* 8738
crops
agroforestry 6598
integrated pest management 6598
*Rhizoctonia solani* 1300
cucumbers, *Fusarium oxysporum* 8595
fruit, *Pestalotiopsis* 1312
fungi 8174
*Fusarium* 3373
*Ginkgo biloba*
*Fusarium* 8787
*Macrophomina phaseolina* 8787
grapes, diseases 2252
kenaf, *Pseudomonas solanacearum* 5520
loquats, *Pestalotiopsis eriobotrifolia* 1308
maize, maize dwarf mosaic potyvirus 297
mandarins, disorders 4679
Meliolaceae 5781
millets, Ustilaginales 315
mycorrhizal fungi 6468
*Mycovellosiella* 5787
*Myrica rubra, Pestalotiopsis stellata* 1308
*Panax pseudoginseng, Erysiphe panax* 3192
persimmons, *Pestalotiopsis longiseta* 1308
*Pestalosphaeria* 1309
*Pestalotiopsis* 1307, 1898
*Phaseolus vulgaris, Uromyces appendiculatus* 351
*Phlox, Septoria divaricatae* 5574
*Picea, Lophophacidium hyperboreum* 6320
*Pinus*
*Lophodermium* 8792
*Lophodermium himalayense* 6317
*Lophodermium kumaunicum* 6317
*Pinus armandi, Lophodermium ellipticum* 6317
*Pinus pumila, Coleosporium pini-pumilae* 6316
*Pinus sibirica, Lophodermium pinisibiricum* 6313
*Pinus taeda*, mycorrhizas 6477
plant diseases, legislation 4115
potatoes
*Erwinia carotovora* subsp. *atroseptica* 6060
*Erwinia carotovora* subsp. *carotovora* 6060
storage decay 8485
*Pseudocercospora* 5784, 5787-5788, 8173
*Pythium* 1313
rice
*Magnaporthe grisea* 1454
*Pyricularia oryzae* 324, 1454
rice stripe tenuivirus 6715, 7528
seedborne fungi 8372
*Thanatephorus sasakii* 324
*Xanthomonas oryzae* pv. *oryzae* 338
*Sclerotinia* 4182
*Setaria italica, Uromyces setariae-italicae* 2723
soil
mycorrhizal fungi 3336, 5735
*Rhizoctonia solani* 1300
soyabeans, soybean mosaic potyvirus 8426
tea, diseases 3926
tomatoes, tobacco mosaic tobamovirus 6092
*Toona sinensis, Pseudocercospora toonae* 8173
vegetables, viruses 1974
*Vicia amoena, Thecaphora viciae-amoenae* 5785
*Vitis*, diseases 2252
weeds, biological control 6368
wheat
*Cochliobolus sativus* 270
*Erysiphe graminis* 4337, 8307

**China** *cont.*
wheat *cont.*
*Gibberella zeae* 5165
*Monographella nivalis* 858
Anhui, rice, *Rhizoctonia solani* 2083
Beijing
apples, *Botryosphaeria ribis* 8611
cucumber mosaic cucumovirus 8548
hops, *Fusarium oxysporum* 4016
sugarbeet
beet necrotic yellow vein furovirus 537
tomato black ring nepovirus 537
Fujian
*Narcissus tazetta* var. *chinensis*, tobacco rattle tobravirus 7967
rice
*Pyricularia oryzae* 907, 8381
rice tungro bacilliform badnavirus 4412
rice tungro spherical ribotungrovirus 4412
Gansu
barley, *Pyrenophora graminea* 284
maize, *Cochliobolus sativus* 5925
wheat, *Puccinia striiformis* 5146
Guangdong
cucumbers
*Phytophthora capsici* 2211
*Phytophthora drechsleri* 2211
rice, *Rhizoctonia solani* 7552
Guangxi
*Amomum villosum, Glomerella cingulata* 8824
citrus, *Xanthomonas campestris* pv. *citri* 3017
*Phaseolus vulgaris, Fusarium oxysporum* f.sp. *phaseoli* 5259
*Sclerocystis sinuosa* 724
Guizhou, *Dactylis glomerata, Rhynchosporium orthosporum* 7568
Hebei
*Capsicum*, viruses 8577
wheat, *Puccinia recondita* 8294
Heilongjiang
soyabeans
*Peronospora manshurica* 5251
soybean mosaic potyvirus 354
sunflowers, *Sclerotinia sclerotiorum* 3897
*Vigna angularis, Cercospora canescens* 4502
Henan
*Eulaliopsis binata, Ephelis* 4783
watermelons, *Fusarium oxysporum* f.sp. *niveum* 4599
wheat, *Erysiphe graminis* 848, 2013
Hubei, rice, *Xanthomonas oryzae* pv. *oryzae* 3654
Hunan
*Capsicum*
diseases 6124
viruses 8577
*Hedera nepalensis, Meliola dichotoma* 4799
*Quercus, Meliola quercicola* 4799
rice, *Xanthomonas oryzae* pv. *oryzicola* 7561
Jiangsu
barley
*Rhizoctonia* 8248
*Rhizoctonia cerealis* 8334
*Rhizoctonia solani* 8334
*Capsicum*, diseases 6124
cotton, *Rhizoctonia* 8248
faba beans, *Botrytis fabae* 4473
maize
*Rhizoctonia* 8248
*Rhizoctonia solani* 2067
peas, lettuce mosaic potyvirus 8452
*Platycladus orientalis, Chloroscypha platycladus* 5782
rice
*Rhizoctonia* 8248
*Xanthomonas oryzae* pv. *oryzae* 8391
soyabeans
*Calonectria crotalariae* 364
*Rhizoctonia* 8248
soybean mosaic potyvirus 355

**China** *cont.*
Jiangsu *cont.*
wheat
*Rhizoctonia* 8248
*Rhizoctonia solani* 4353
Jiangxi
*Boehmeria nivea, Colletotrichum boehmeriae* 8745
*Nelumbo nucifera, Fusarium oxysporum* f.sp. *nelumbicola* 1742
Jilin
cucumbers, *Fusarium* 7715
tobacco
cucumber mosaic cucumovirus 3095
tobacco mosaic tobamovirus 3095
kenaf, cucumber mosaic cucumovirus 4785
Liaoning
*Pinus, Cenangium acicolum* 3155
*Pinus koraiensis, Cenangium acicolum* 2394
*Populus, Dothiorella gregaria* 8775
sunflowers, *Sclerotinia sclerotiorum* 3053
tomatoes, *Clavibacter michiganensis* subsp. *michiganensis* 8567
wheat, *Puccinia graminis* 1996
Nei Menggu, *Euphorbia esula*, diseases 5611
Ningxia
rice, *Cladosporium herbarum* 5226
soil, *Pythium* 1899
sugarbeet, beet necrotic yellow vein furovirus 7852
vegetables, *Pythium* 1899
Shaanxi
*Auricularia auricula-judae*, diseases 4790
*Capsicum, Phytophthora capsici* 2203
garlic, viruses 2857
rice, *Xanthomonas oryzae* pv. *oryzae* 7559
sweet potatoes, *Ceratocystis fimbriata* 416
Shandong
*Crataegus pinnatifida*, diseases 5547
cucumbers, diseases 6904
soyabeans
*Fusarium equiseti* 3679
*Fusarium oxysporum* 3679
*Fusarium solani* 3679
vegetables, viruses 3466
Shanghai
carnations, carnation vein mottle potyvirus 4000
soil, *Phytophthora cinnamomi* 1896
Shanxi
*Capsicum*, diseases 6124
cotton, diseases 6280
Sichuan
cherries, mycoplasma-like organisms 4622
Indian mustard, viruses 8508
rice, *Pyricularia oryzae* 7539
wheat
*Erysiphe graminis* 266, 3540
*Gibberella zeae* 277
Xinjiang
*Capsicum, Phytophthora capsici* 8581
liquorice, *Uromyces glycyrrhizae* 5602
melons, *Didymella bryoniae* 8594
*Prunus divaricata, Uncinuliella rosae* var. *pruni* 6155
Yunnan
*Eupatorium odoratum, Alysidiopsis yunnanensis* 5783
*Indigofera scabra, Phyllactinia verruculosa* 5786
*Pinus armandi, Soleella pinicola* 6314
*Pyricularia oryzae*, mating types 4422
rice, *Pyricularia oryzae* 327
Zhejiang
*Cayratia corniculata, Sphaerotheca cayratiae* 6561
citrus
citrus tatter leaf virus 8648

**China** *cont.*
Zhejiang *cont.*
citrus *cont.*
citrus vein enation-woody gall virus 1078
diseases 4665
Cruciferae
*Pseudomonas* 1542
*Xanthomonas campestris* pv. *campestris* 1542
cucumbers, *Fusarium oxysporum* 6136
*Dahlia*, cucumber mosaic cucumovirus 1732
maize, *Gibberella fujikuroi* 5188
mulberries, *Fusarium* 1588
rape, *Sclerotinia sclerotiorum* 6235
rice
*Magnaporthe grisea* 1455
*Pyricularia oryzae* 908, 1455
*Xanthomonas oryzae* pv. *oryzae* 8391
saffron, *Pseudomonas gladioli* 1747
tomatoes, ribgrass mosaic tobamovirus 1549
wheat, wheat spindle streak mosaic bymovirus 1383
**China aster** (*see Callistephus chinensis)*
**Chinese cabbages** (*Brassica pekinensis*)
*Alternaria brassicae*, environmental factors 996
*Aphanomyces raphani*
control 2181
Korea Republic 2181
bacteria, host parasite relationships 6850
*Botrytis cinerea*, biological control 6079
cauliflower mosaic caulimovirus
mixed infections 995
ultrastructure 995
*Erwinia carotovora* subsp. *atroseptica*
dew 1002
rain 1002
*Erwinia carotovora* subsp. *carotovora*
dew 1002
rain 1002
soil amendments 1535
*Plasmodiophora brassicae*
edaphic factors 6846
Kyushu 1536
turnip mosaic potyvirus
mixed infections 995
ultrastructure 995
turnip yellow mosaic tymovirus, symptoms 6844
**Chinese gooseberries** (*see* Kiwifruits)
**Chinomethionat**
control
mangoes, diseases 7801
*Oidium*, tomatoes 6107
**Chitin,** activity, *Mycosphaerella arachidis*, groundnuts 8694
**Chitinase**
activity, *Trichoderma longibrachiatum* 3355
control, soil fungi 8090
**Chitosan**
activity
*Fusarium oxysporum* f.sp. *radicis-lycopersici* 2191
*Rhizopus stolonifer* 738
***Chlamydomyces palmarum,*** maize, West Bengal 755
***Chlamydosporium submersum,*** taxonomy 6567
***Chlorella,*** viruses, characteristics 1751
**Chloride**
activity
crops, diseases 7421
plant diseases 2602
**Chloris striate mosaic intergeminivirus,** Gramineae, Australia 927
**Chlormequat,** control, *Erysiphe graminis*, wheat 2641
**Chloroneb**
activity, *Ustilago zeae* 1239
control, *Rhizoctonia solani*, cotton 3112
***Chlorophytum comosum,*** *Corticium rolfsii*, Honshu 5577
**Chloropicrin**
control
apples, replant disease 1050
**Chloropicrin** *cont.*
control *cont.*
*Phytophthora nicotianae* var. *parasitica*, *Gypsophila paniculata* 5576
*Plasmodiophora brassicae*, cauliflowers 2868
*Rhizoctonia solani*, *Delphinium* 5578
soil treatment 5507
***Chloroscypha platycladus***
*Platycladus orientalis*
Jiangsu 5782
taxonomy 5782
**Chlorotetracycline,** control, *Xanthomonas campestris* pv. *phaseoli*, *Phaseolus vulgaris* 369
**Chlorothalonil**
activity
*Corticium rolfsii* 7865
*Euphorbia pulcherrima* 4856
*Glomerella cingulata* 6160
*Leucaena leucocephala*, mycorrhizas 94
melons 445
*Septoria apiicola* 7248
control
*Alternaria alternata*, chickpeas 968
*Alternaria solani*, tomatoes 6862
*Ascochyta*, grapes 6970
*Ascochyta rabiei*, chickpeas 2809
*Blumeriella jaapii*, cherries 8623
*Botrytis*, tulips 6346
*Cercospora destructiva*, *Euonymus* 4858
chickpeas, seedborne fungi 2807
*Cladosporium caryigenum*, pecans 4693
*Corticium rolfsii*, groundnuts 3070, 3072
*Crinipellis perniciosa*, cocoa 4751
*Diaporthe citri*, oranges 7799
*Entomosporium mespili*, *Photinia fraseri* 3996
*Glomerella cingulata*
coffee 5490, 6268
pecans 4693
*Laetisaria fuciformis*, *Lolium perenne* 931
*Magnaporthe grisea*, *Stenotaphrum secundatum* 1726
*Mycosphaerella berkeleyi*, groundnuts 3070, 3072
*Mycosphaerella brassicicola*, Brussels sprouts 8515
*Mycosphaerella pinodes*, peas 7616
*Nectria rigidiuscula*, cocoa 3093
*Pestalotiopsis psidii*, guavas 6216
*Phaseolus vulgaris*, diseases 5261-5262
*Pseudocercospora dendrobii*, *Dendrobium* 7143
*Pseudoperonospora cubensis*
Cucurbitaceae 4602
melons 2920
*Puccinia asparagi*, asparagus 8530
*Puccinia psidii*, guavas 3886
*Pyrenopeziza brassicae*, Brussels sprouts 8515
*Rhizoctonia solani*
*Agrostis stolonifera* var. *palustris* 1728
*Euphorbia pulcherrima* 4856
groundnuts 3072
*Lolium perenne* 931
*Stenotaphrum secundatum* 1727
rice, diseases 325
seedborne fungi
*Dimocarpus longan* 5431
*Litchi chinensis* 5431
sugarcane, diseases 1110
*Taphrina deformans*, nectarines 469
*Taphrina pruni*, plums 2975
tomatoes, diseases 6872
*Tranzschelia discolor*, peaches 6943
fungicide residues
crops 72
grapes 76
groundnuts 7029
health hazards 6436
tomatoes 435, 2896
nontarget effects, *Ictalurus punctatus* 1243
**Chlorothalonil** *cont.*
phytotoxicity, grapes 6970
***Choiromyces meandriformis,*** taxonomy, spores 6566
**Choline chloride,** activity, *Gibberella zeae* 4205
***Chondrilla juncea,*** *Puccinia chondrillina*, biological control 3207
***Chondrostereum purpureum***
pears, New Zealand 7743
*Populus*
British Columbia 6296
isolates 6296
New Brunswick 6296
*Prunus serotina*
biological control 5618, 8849
Netherlands 5618, 8849
**Chrysanthemum B carlavirus,** chrysanthemums, biological control 7134
**Chrysanthemum stunt viroid**
chrysanthemums
detection 7961
identification 3181
Italy 3181
**Chrysanthemums** (*Dendranthema indicum* and *D. morifolium*)
*Agrobacterium tumefaciens*
characteristics 1736
strains 1736
*Alternaria alternata*, Italy 3186
chrysanthemum B carlavirus, biological control 7134
chrysanthemum stunt viroid
detection 7961
identification 3181
Italy 3181
diseases, certification 7276
*Fusarium oxysporum*, Italy 3186
*Fusarium oxysporum* f.sp. *chrysanthemi*, Maharashtra 7962
manganese, toxicity, Florida 4278
mycorrhizas, Honshu 7296
phloem necrosis
control 5569
detection 5569
mycoplasma-like organisms 5569
*Phytophthora*, control 3185
*Pseudomonas cichorii*, transmission 8814
*Puccinia horiana*
biological control 8812
control 4867
reviews 8812
Taiwan 4867
*Pythium*, control 3185
*Septoria chrysanthemella*, control 8811
tomato aspermy cucumovirus, biological control 7134
tomato spotted wilt tospovirus
Poland 5075
serology 5075
transmission 5075
yellows
immunodiagnosis 4862
mycoplasma-like organisms 4862
***Chrysomyxa abietis,*** *Picea abies*, Switzerland 1716
***Chrysomyxa pirolata,*** *Picea*, Canada 5549
***Chrysomyxa rhododendri,*** *Picea abies*, Switzerland 1716
***Chrysomyxa weirii,*** Coniferae, Pennsylvania 6301
***Chrysosporium lignorum,*** soil, growth 5035
***Chrysosporium luteum,*** mushrooms, resistance 4017
**Chytridiomycetes,** reviews 4053
***Ciboria batschiana***
*Quercus robur*
acorns 2384
Sweden 2384
***Ciborinia camelliae***
*Camellia*
control 8808
Louisiana 8808
***Cicadellidae,*** transmission, plant pathogens 8237
***Cicadulina,*** transmission, maize streak monogeminvirus 8347
***Cicadulina mbila,*** transmission, maize streak monogeminivirus 878, 4381-4383
***Cicer arietinum*** (*see* Chickpeas)
***Cichorium endivia*** (*see* Endives)

***Cichorium intybus*** (*see* Chicory)
***Cinnamomum zeylanicum***, plant extracts, antifungal agents 2733
***Cintractia limitata***, *Cyperus pangore*, India 3401
***Circulifer***
transmission
mycoplasma-like organisms 2564
viruses 2564
***Circulifer opacipennis***, transmission, *Spiroplasma citri* 5111
***Circulifer tenellus***
transmission
African cassava mosaic bigeminivirus 3440
beet curly top intergeminivirus 3440, 6843
mycoplasma-like organisms 5323
***Cirsium arvense***
*Puccinia punctiformis*
infection 2431
ultrastructure 7165
***Cirsium vulgare***
*Puccinia cnici*
biological control 6360
biology 6360
Victoria 6360
***Cissus***
*Pseudocercospora cissi*
India 7366
taxonomy 7366
***Cissus rhombifolia***, *Pythium*, control 7251
***Citrullus colocynthis***
*Aspergillus carneus*, Saudi Arabia 3194
*Aspergillus ellipticus*, Saudi Arabia 3194
*Colletotrichum orbiculare*, genetics 5368
viruses
screening 5356
United Arab Emirates 5356
***Citrullus lanatus*** (*see* Watermelons)
**Citrus** (*see also* English names of individual species and hybrids)
*Alternaria alternata*, toxins 7797
*Alternaria citri*, control 7799
*Alternaria limicola*
control 6990
Mexico 6990
bacteria
Minas Gerais 6213
São Paulo 6213
blight
reviews 6992
South Africa 6202
spread 6202
*Botryodiplodia theobromae*
Arunachal Pradesh 3016
insect damage 3016
*Capnodium citri*
control 6990
Mexico 6990
*Cercospora angolensis*
Africa 125
Angola 125
citrus exocortis viroid
elimination 4663
Venezuela 4666
Zhejiang 4665
citrus leprosis virus
Brazil 5440
control 5440
transmission 5440
citrus psorosis complex
South Africa 1601
Venezuela 4666
citrus ringspot virus
characteristics 6203
isolates 6204
Spain 6204
citrus tatter leaf virus
control 3013
Taiwan 3003, 3013
Zhejiang 4665, 8648
citrus tristeza closterovirus
Argentina 6983
China 3870
control 3013
detection 499
DNA probes 6984
genetic resources 3870
induced resistance 3011-3012
isolates 3012, 4664

**Citrus** *cont.*
citrus tristeza closterovirus *cont.*
reviews 6830
RNA probes 6985
South Africa 3012
Spain 4664
strains 3872
Taiwan 3003, 3013
transmission 3871
varietal reactions 6983
Venezuela 3011
Zhejiang 4665
citrus vein enation-woody gall virus, Zhejiang 1078
copper, toxicity 8655
decline
Mexico 6981
São Paulo 5437
soil types 5437
water uptake 6981
zinc 6981
*Deuterophoma tracheiphila*
biochemistry 5122
control 4662
fungicide tolerance 4673
*in vitro* selection 6991
Italy 4673
physiology 5122
toxins 6210, 6991
varietal reactions 2263
*Diaporthe citri*
control 7799
Mizoram 6208
Texas 2266
diseases
aerial photography 6980
control 1605, 7249
Florida 6980
India 1354
Indonesia 497
integrated control 3010
Middle East 5439
Republic of Georgia 503
Taiwan 3010
Vietnam 5438
disorders
China 4679
sodium 4679
*Elsinoë australis*, sporulation 6996
*Elsinoë fawcettii*
environmental factors 6994
Republic of Georgia 6994
sporulation 6996
*Epicoccum nigrum*, enzymes 4675
fungicide residues, washing 8653
fungicides
mobility 1800
persistence 4674
*Fusarium*, Tamil Nadu 8650
*Fusarium solani*, China 5443
*Ganoderma lucidum*
infection 2267
Texas 2267
*Geotrichum candidum*, fungicide tolerance 4952
*Geotrichum citri-aurantii*, Israel 2268
*Gloeosporium limetticola*
control 6990
Indian Punjab 4669
Mexico 6990
*Glomerella cingulata*
characteristics 2265
control 5441, 7800, 8649
culture media 1604
environmental factors 6988, 7796
enzymes 3876, 4675
Florida 2265, 5441, 6988, 7796
inoculum 6988
pathogenicity 2265
spread 7796
strains 1604, 2264-2265, 3876
*Glomus*
mycorrhizas
Florida 4160
inoculum 4160
greening
bacteria 6211
biological control 3019
control 3013
diagnosis 4677
integrated control 3010

**Citrus** *cont.*
greening *cont.*
molecular genetics 6211
South Africa 5444
Taiwan 3003, 3010, 3013, 3019
Tanzania 1606
transmission 3018-3019, 5444
mineral deficiencies, Spain 3020
mycoplasma-like organisms
detection 500
India 6973
Republic of Georgia 500
research 6973
*Mycosphaerella pinodes*, control 6987
*Oidium tingitaninum*
inoculation 1602
reviews 1080
varietal reactions 1602
ozone
frost resistance 3006
growth 3006
pathogenesis-related proteins, detection 7425
*Penicillium*
biological control 5442
storage 5442
*Penicillium digitatum*
biological control 7795
control 3015
induced resistance 6207
postharvest decay 6207
storage 3015
*Penicillium italicum*, biological control 7795
*Penicillium ulaiense*
California 6989
postharvest decay 6989
pesticides, application 68, 498
*Phytophthora*
control 4662
reviews 6993
*Phytophthora citrophthora*
seasonal variation 8652
sporulation 1603
temperature 1603
*Phytophthora nicotianae* var. *parasitica*
Florida 6986, 7798
irrigation 3874
models 7798
phenology 7798
rootstocks 6209
seasonal variation 8652
soil amendments 6986
sporulation 1603
temperature 1603
varietal reactions 6209
postharvest decay
biological control 8651
control 501
*Pseudomonas syringae*, control 4662
*Rhizoctonia solani*
control 4670
Himachal Pradesh 4670
*Rhytidhysterium rufulum*, pathogenicity 6995
satsuma dwarf nepovirus
Japan 3014
spread 1599
symptoms 3014
transmission 3014
*Sphaerotheca tumefaciens*, Cuba 4668
*Spiroplasma citri*, Iran 6982
storage decay, control 3875, 4667
tumours
control 496
Cuba 496
viroids
indexing 3873
mixed infections 2262
New South Wales 3873
viruses
elimination 1600, 4663
grafting 1600
indexing 3873
India 6973
New South Wales 3873
research 6973
*Xanthomonas campestris*, strains 1607
*Xanthomonas campestris* pv. *citri*
antagonists 2269
Australia 5445

**Citrus** *cont.*
*Xanthomonas campestris* pv. *citri cont.*
bacteriophages 6212
control 5446
detection 505, 6212
environmental factors 5445
epidemiology 506
Guangxi 3017
infection 2270
inoculation 507
integrated control 3017
lipids 1081
models 506
resistance 1081, 2270
reviews 6997
sampling 504
São Paulo 504
Taiwan 6212
varietal reactions 2270
*Xanthomonas campestris* pv. *citrumelo*
infection 2270
inoculation 507
resistance 2270
varietal reactions 2270
xyloporosis, Venezuela 4666
yeasts
Argentina 502
postharvest decay 502
yellow shoot
control 1079
detection 8654
Zhejiang 4665
yellowing, mineral nutrition 4678
***Citrus aurantiifolia*** (*see* Limes)
***Citrus aurantium*** (*see* Sour oranges)
***Citrus deliciosa*** (*see* Mandarins)
**Citrus exocortis viroid**
citrus
Venezuela 4666
Zhejiang 4665
*Gynura aurantiaca*, polyamines 4268
lemons, elimination 4663
molecular genetics, pathogenicity 2575
tomatoes, polyamines 4268
***Citrus jambhiri*** (*see* Rough lemons)
**Citrus leprosis virus**
citrus
Brazil 5440
control 5440
transmission 5440
***Citrus limon*** (*see* Lemons)
***Citrus paradisi*** (*see* Grapefruits)
**Citrus psorosis complex**
citrus, Venezuela 4666
oranges, South Africa 1601
***Citrus reshni*** (*see* Mandarins)
***Citrus reticulata*** (*see* Mandarins)
**Citrus ringspot virus**
citrus
isolates 6204
Spain 6204
grapefruits, characteristics 6203
***Citrus sinensis*** (*see* Oranges)
**Citrus tatter leaf virus**
citrus
control 3013
Taiwan 3003, 3013
Zhejiang 4665, 8648
**Citrus tristeza closterovirus**
citrus
China 3870
control 3013
detection 499
DNA probes 6984
genetic resources 3870
Indonesia 497
induced resistance 3011
isolates 4664
reviews 6830
RNA probes 6985
Spain 4664
strains 3872
Taiwan 3003, 3013
transmission 3871
Venezuela 3011
Zhejiang 4665
grapefruits
Argentina 6983
induced resistance 3012
isolates 3012
South Africa 3012

**Citrus tristeza closterovirus** *cont.*
grapefruits *cont.*
varietal reactions 6983
limes, strains 3872
molecular genetics
coat proteins 3446, 8209
gene expression 3446
isolates 8209
nucleotide sequences 796
oranges, strains 3872
**Citrus vein enation-woody gall virus**, citrus, Zhejiang 1078
***Cladobotryum dendroides***
mushrooms
control 8838
physiology 8836, 8838
***Cladobotryum verticillatum***
*Agaricus bitorquis*
control 5603
environmental factors 5603
mushrooms
contaminants 8835
spawn 8835
***Cladosporium***
air spora, Sweden 4193
*Populus*, induced resistance 3971
rice
Honshu 5210
seeds 6712
wheat
control 8287
Egypt 5137
seeds 5137
spore dispersal 1384
UK 8287
***Cladosporium caryigenum***
pecans
Alabama 4693
control 4692-4693
Georgia 4692
host parasite relationships 2288-2289
phenolic compounds 2288-2289
***Cladosporium cladosporioides***
pigeon peas
control 3706
Maharashtra 3706
seeds 3706
sorghum, seeds 7511
*Ziziphus mauritiana*, Assam 5780
***Cladosporium cucumerinum***
cucumbers
control 6134
Czechoslovakia 6134
Cucurbitaceae, taxonomy 1037
laboratory tests
plant extracts 5697-5698, 7263, 8120
prochloraz 2463
quinconazole 2463
***Cladosporium echinulatum***, carnations, Hawaii 6341
***Cladosporium herbarum***
apples, storage 2961
control, *Eutypa lata*, grapes 8633
cotton
environmental factors 6278
honeydew 6278
lint 2361
reviews 2361
India 3402
laboratory tests, plant extracts 2482
maize, pollen 5193
*Melinis minutiflora*, pollen 5193
*Panicum maximum*, pollen 5193
rice
control 5226
Ningxia 5226
***Cladosporium humile***, *Populus*, Himachal Pradesh 7919
***Cladosporium marinum***
*Avicennia marina*
taxonomy 8844
West Bengal 8844
***Cladosporium oxysporum***
cucumbers
Jammu and Kashmir 8597
storage 8597
India 3402
quinces
Jammu and Kashmir 8620
storage 8620

***Cladosporium sphaerospermum***, apples, storage 2961
***Cladosporium tenuissimum***, rice, endophytes 3640
***Cladosporium vignae***
cowpeas
taxonomy 769
USA 769
*Lespedeza bicolor*
taxonomy 769
USA 769
***Clavibacter***, identification 6393, 7183
***Clavibacter michiganensis* subsp. *insidiosus***
lucerne
mixed infections 4453
nodules 1473
***Clavibacter michiganensis* subsp. *michiganensis***
aubergines, mixed infections 2167
crops, control 1962
detection 4056
identification 4056
*Pseudomonas glumae*, antagonism 6407
rice, biological control 6742
tomatoes
control 7691
detection 7693
host parasite relationships 2900
hosts 8567
inoculation 8567
inoculum density 1553
Liaoning 8567
molecular genetics 1015
Ohio 6110
pathogenicity 1015
phenolic compounds 2900
quarantine 7693
seeds 7693
spread 6110
symptoms 6856
temperature 1553
testing 1014
varietal reactions 1553, 4586
virulence 2900
yield losses 6110
***Clavibacter michiganensis* subsp. *nebraskensis***, laboratory tests, plant extracts 4377
***Clavibacter michiganensis* subsp. *sepedonicus***
aubergines, mixed infections 2167
barley, proteins 3493
biochemistry
exopolysaccharides 6397
polysaccharides 2166
laboratory tests, disinfectants 4107, 6392
maize, proteins 3493
molecular genetics, DNA probes 7191
potatoes
biological control 6063
diagnosis 2167
Europe 2167
genetic resources 2851
monoclonal antibodies 8496
tissue culture 1524
Ukraine 1516
*Solanum*, genetic resources 2851
***Clavibacter toxicus***
*Agrostis avenacea*
New South Wales 7571
vectors 7571
*Lolium rigidum*
Australia 7574, 8414
bacteriophages 8414
taxonomy 7574
toxins 8414
*Polypogon monspeliensis*
South Australia 7571
vectors 7571
***Clavibacter tritici***
*Phalaris minor*, mixed infections 3509
wheat, mixed infections 3509
***Clavibacter xyli* subsp. *xyli***
sugarcane
control 1109
harvesters 1646
immunodiagnosis 7045
reviews 1648
South Africa 533
spread 1646
varietal reactions 1646

***Claviceps*, sorghum, varietal reactions 3609**
***Claviceps africana***
sorghum
environmental factors 307
South Africa 892
spread 5932
varietal reactions 892
Zimbabwe 5932
***Claviceps amamiensis***
*Digitaria microbachne*
Japan 2758
taxonomy 2758
***Claviceps fusiformis***
*Pennisetum americanum*
reviews 899
sclerotia 3627
***Claviceps paspali***
*Paspalum dilatatum*
characteristics 5981
Japan 5981
*Paspalum distichum*
characteristics 5981
Japan 5981
*Paspalum thunbergii*
characteristics 5981
Japan 5981
protoplasts 5763
***Claviceps purpurea***
biochemistry, alkaloids 1879
*Cynodon dactylon*
Oklahoma 929
toxins 929
*Festuca arundinacea*
vectors 6750
Virginia 6750
grasses
control 4451
seeds 4451
molecular genetics
DNA 8152
genetic transformation 1285
plasmids 8152
*Poa pratensis*
control 8401
Idaho 8401
seed production 4449
protoplasts 5763
triticale
fertilizers 3592
fungicides 3592
***Claviceps queenslandica***
*Paspalum orbiculare*
characteristics 5981
Japan 5981
***Claviceps sorghi***
*Cerebella andropogonis*, antagonism 893
sorghum
antagonists 893
environmental factors 893
Tamil Nadu 893
varietal reactions 1434, 1438
**Cleary's 336F**, activity, *Euphorbia pulcherrima* 4857
***Clerodendron inerme*, plant extracts, antiviral agents 7056-7057**
***Clitoria ternatea***
cowpea chlorotic mottle bromovirus
characteristics 2587
Nigeria 2587
***Clostridium***
potatoes
Poland 6061
storage 6061
varietal reactions 6061
**Clover yellow mosaic potexvirus**
faba beans, molecular genetics 5101
molecular genetics
gene expression 1330
infectivity 4260
nucleotide sequences 1330
**Clover yellow vein potyvirus**
*Phaseolus vulgaris*
hosts 8436
Japan 8436
taxonomy, molecular genetics 189
*Trifolium repens*
Czechoslovakia 935
epidemiology 4457
transmission 935
*Trifolium subterraneum*, Australia 2095
weeds, Japan 8436
**Clovers** (*see Trifolium*)
**Cloves** (*Syzygium aromaticum*)
*Glomerella cingulata*, control 3197
*Pestalotiopsis versicolor*
control 7151
hosts 7151
Maharashtra 7151
plant extracts, antifungal agents 626, 3910
*Pseudomonas syzygii*
Indonesia 2417, 8829
transmission 2416-2417, 8829
**Cluster beans** (*see* Guar)
**Cobalt**, activity, *Corticium rolfsii*, barley 289
***Cochliobolus carbonum***
maize
carbohydrates 5195
cytokinins 5195
enzymes 2716
genetics 2064, 4275, 4400
infection 5195
North Carolina 8353
races 5924, 8353
resistance 2716
seeds 2712
toxins 2064, 4400
USSR 882
sorghum
phytoalexins 891
pigments 891
taxonomy 2557
***Cochliobolus cynodontis***
lawns and turf
mowing 1729
mulching 1729
***Cochliobolus eragrostidis*, rice, seeds 6712**
***Cochliobolus hawaiiensis***
pigeon peas
control 3706
Maharashtra 3706
seeds 3706
wheat
biochemistry 6661
culture media 3547
detection 1989
seeds 1989
sowing date 2678
spore germination 2679
varietal reactions 5877, 6661
***Cochliobolus heterostrophus***
biochemistry, enzymes 1287
fodder crops
Egypt 6627-6628
toxins 6629
maize
genetics 2711
host parasite relationships 3599
resistance 7502
toxins 3599, 5919
USSR 882, 2053
varietal reactions 2056, 5919
molecular genetics
enzymes 736
mating types 5761
nucleotide sequences 736, 5761
soil, estimation 8166
taxonomy 2557
***Cochliobolus lunatus***
*Bacillus circulans*, antagonism 4868
*Bacillus firmus*, antagonism 4868
*Derris trifoliata*, West Bengal 8843
India 3402
laboratory tests
antifungal agents 5695
plant extracts 3286, 6464
molecular genetics, genetic transformation 1286
*Oryza officinalis*
genetic resources 3647
Tamil Nadu 3647
varietal reactions 3647
*Pennisetum americanum*, enzymes 2072
*Pinus gerardiana*, seeds 8791
rice
discoloration 5954
genetic resources 3647
plant extracts 2733
seeds 2074
Tamil Nadu 336, 3647
varietal reactions 3647
***Cochliobolus lunatus* cont.**
rice *cont.*
vectors 5954
Vietnam 4438
sorghum
genetics 7512, 8355
seeds 7511-7512
sweet potatoes, Assam 5780
***Cochliobolus miyabeanus***
environmental factors 3365
laboratory tests
antifungal agents 2464, 4096, 4948, 6719
2-azetidinones 6445
fungicides 7241
phosphonates 2466
plant oils 8119
pyrazolones 4097
pyrimidines 7244
thiazole fungicides 1816
triaryl ethers 2468
rice
Andhra Pradesh 7550
biological control 668
Cameroon 5209
control 325, 903, 2736, 4428, 5963
discoloration 5954
fungicide tolerance 4430
India 4430
nitrogen 6716
phenolic compounds 4429
plant extracts 904, 6718
races 5223
reviews 914
São Paulo 5223
seed treatment 5964, 6717
seeds 6712
spore dispersal 335
toxins 4429, 7549
varietal reactions 2734, 4415, 5223
vectors 5954
*Zizania palustris*, Minnesota 2754
***Cochliobolus nodulosus***
*Eleusine coracana*
Madhya Pradesh 2727
seeds 2727
***Cochliobolus pallescens***
*Eleusine coracana*
reservoir hosts 1765
Uttar Pradesh 1765
*Imperata arundinacea*
reservoir hosts 1765
Uttar Pradesh 1765
West Bengal 755
sugarcane, plant extracts 3910
***Cochliobolus sativus***
*Avena nuda*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
barley
breeding 3563
control 1407, 5900
Latvia 826
Parana 5846
Rio Grande do Sul 5846
rotations 5846
soil amendments 5900
straw 3586
Sweden 7493
testing 2700
toxins 2700
yield losses 3586
*Bromus inermis*, USSR 2755
cereals, toxins 7438
*Eichhornia crassipes*, Haryana 8859
*Festuca pratensis*
breeding 3660
Switzerland 3660
linseed, seeds 6237
*Lolium perenne*, seeds 8398
maize, Gansu 5925
oats
Parana 5846
Rio Grande do Sul 5846
rotations 5846
*Poa pratensis*, herbicides 8396
toxins, barley 5180
wheat
Bangladesh 4347
biochemistry 849

***Cochliobolus sativus*** *cont.*
wheat *cont.*
biological control 1379
Brazil 1379, 2633, 8283
breeding 8274
China 270
chloride 251
control 2642, 2646, 3515, 4310, 5157, 7456
crop residues 8283
detection 1989, 2646
DNA 2644
environmental factors 272
epidemiology 831
infection 6663
integrated control 1990, 2633
Mexico 8312
Minnesota 251
mixed infections 3517
ozone 831
Parana 5846
plant residues 1379
Queensland 272
resistance 5158, 8312
Rio Grande do Sul 5846
rotations 3472, 5846
Saskatchewan 272, 3472
seed treatment 7456
seeds 1989, 2646, 4310
selection 3546
Siberia 4310
sporulation 272
survival 8283
tillage 3472
tissue culture 2019
toxins 2019
varietal reactions 270, 849, 2018, 4347, 5157
Zambia 8274
*Zizania palustris*, Minnesota 2754
***Cochliobolus setariae***
heterokaryosis 1284
*Pennisetum americanum*, genetic resources 2070
***Cochliobolus spicifer***
fodder crops, Egypt 6627
kiwifruits
Greece 5429
postharvest decay 5429
wheat
detection 1989
seeds 1989
toxins 5879
***Cochliobolus verruculosus***, maize, West Bengal 755
***Cochliobolus victoriae***, oats, toxins 5906
***Cochliobolus zeae***, taxonomy, new species 4219
**Cocoa** (*Theobroma cacao*)
*Aspergillus chevalieri*
enzymes 2340
storage 2340
cacao swollen shoot badnavirus
biological control 7873
breeding 549
detection 8714
induced mutations 549
transmission 7873
*Colletotrichum*
environmental factors 560
Indonesia 560
*Corticium salmonicolor*, Western Samoa 7872
*Crinipellis perniciosa*
biological control 7051
Brazil 550
Colombia 4737, 4742-4750
control 550, 1126, 4741, 4747-4748, 4751
diagnosis 4749
epidemiology 4737, 4748
infection 4738
inoculation 4738
inoculum 4745
isolates 4740
rain 4742
research 4737, 4750
Rondônia 4751, 7051
spore dispersal 4743-4744
sporulation 4742
symptoms 1126, 4749
**Cocoa** *cont.*
*Crinipellis perniciosa cont.*
testing 4739
variation 4740
yield losses 4746
diseases
Australasia 1125
breeding 7870
Caribbean 548
Colombia 4736
control 552, 1125, 7868, 7871
Indonesia 7871
integrated control 7869
legislation 7871
Papua New Guinea 548, 7869-7870
production 4736
quarantine 1124
reviews 548, 552, 2339, 7868
Sabah 548
Solomon Islands 552
South East Asia 1125
*Glomerella cingulata*
Indonesia 2342
yield losses 2342
*Moniliophthora roreri*
Brazil 550
control 550
Peru 3094
reviews 559
South America 559
*Nectria rigidiuscula*
control 3093
Venezuela 3093
*Oncobasidium theobromae*
biology 553
breeding 551
control 554, 7874-7875
environmental factors 7875
Indonesia 551, 555, 7874
Malaysia 554
Philippines 7872
pruning 555
reviews 553
*Penicillium steckii*
enzymes 2340
storage 2340
*Phytophthora*
biology 558
Brazil 550
control 550, 558
Papua New Guinea 558
reviews 2341
*Phytophthora palmivora*
biological control 556, 7873
biology 558
breeding 551
control 557-558, 1654, 7874
Formicidae 4752
Indonesia 551, 7874
Malaysia 4752
Papua New Guinea 558
reviews 556
Sierra Leone 1654
Western Samoa 7872
*Verticillium dahliae*, culture 3929
**Coconut cadang-cadang viroid**, coconuts, reviews 1633
**Coconut foliar decay virus**, coconuts, DNA probes 2319
**Coconuts** (*Cocos nucifera*)
*Botryodiplodia theobromae*, Mexico 7022
*Catacauma torrendiella*
Bahia 2320
control 2320
*Ceratocystis paradoxa*, Mexico 7022
coconut cadang-cadang viroid, reviews 1633
coconut foliar decay virus, DNA probes 2319
diseases, Jamaica 5468
*Fusarium oxysporum*
symptoms 7823
Tanzania 7823
*Ganoderma*, detection 1099
*Ganoderma applanatum*
control 1098
Kerala 1098
pathogenicity 7825
*Ganoderma lucidum*
control 1098
enzymes 7023
**Coconuts** *cont.*
*Ganoderma lucidum cont.*
Kerala 1098
pathogenicity 7825
symptoms 528
Tamil Nadu 528
lethal disease
diagnosis 3063
epidemiology 3060
mycoplasma-like organisms 3059-3061, 3063
Tanzania 3059-3061, 3063, 7824
varietal reactions 3061
lethal yellowing
Ghana 3062
mycoplasma-like organisms 3062
varietal reactions 3062
*Pestalosphaeria elaeidis*
control 7024
Kerala 7024
*Pestalotiopsis palmarum*
Mexico 7022
physiology 2321
vitamins 1634
*Phytomonas*
pathogenicity 4696
RNA 4696
Suriname 1636
*Phytophthora*
Hawaii 527
Karnataka 1635
root (wilt)
cerium 7025
environmental factors 8679
Kerala 7025, 8679
magnesium 7025
mycoplasma-like organisms 526
reviews 526, 1632
symptoms 8679
tissue culture 1097
transmission 1097
Thanjavur wilt, Tamil Nadu 528
***Cocos nucifera*** (*see* Coconuts)
**Cocoyam** (*see Colocasia esculenta*)
***Codiaeum variegatum***, *Phyllosticta*, conidia 7340
**Coelomycetes**, Ukraine 3395, 6557
***Coffea arabica*** (*see* Coffee)
***Coffea canephora*** (*see* Coffee)
**Coffee** (*Coffea* spp.)
air spora, Karnataka 546
bacteria
control 7048
tissue culture 7048
*Cercospora coffeicola*
control 7862
Karnataka 7862
*Colletotrichum*, Indonesia 6266
*Corticium rolfsii*
control 7865
Karnataka 7865
diseases, control 7249
fungi
control 7048
tissue culture 7048
*Glomerella cingulata*
Africa 6269, 7050
Angola 5491
control 4734, 5490, 6268
fungicide tolerance 6268, 7864
Kenya 4734, 5490-5491, 6268, 7864
Malawi 5491
races 5491
reviews 1653
*Hemileia vastatrix*
breeding 6267
control 3928, 4734, 7862
Costa Rica 2337
Ethiopia 6267
flavonoids 7863
genetics 6267
histology 7049
host parasite relationships 547, 7049
infection 547
Karnataka 7862
Kenya 4734
Mexico 2338
nutrients 4735
resistance 7863
reviews 1652
varietal reactions 2338, 3927, 7863

**Coffee** *cont.*
*Hemileia vastatrix cont.*
Venezuela 3928
*Koleroga noxia*
control 7862, 7866
cultures 7867
Karnataka 7862, 7867
mycorrhizas
growth 2526, 7310
inoculum 2526
*Phellinus noxius*
control 7862
Karnataka 7862
**Coleoptera**
transmission
bean pod mottle comovirus 169
southern bean mosaic sobemovirus 169
sunn-hemp mosaic tobamovirus 169
tobacco ringspot tobamovirus 169
***Coleosporium helianthi***
Jerusalem artichokes
Georgia 5302
screening 5302
***Coleosporium pini-pumilae, Pinus pumila,*** China 6316
***Coleosporium senecionis,*** potatoes, Chile 2831
***Coleus,*** cucumber mosaic cucumovirus, Louisiana 4875
***Coleus forskohlii, Rhizoctonia solani,*** India 6349
**Collembola,** interactions, *Rhizoctonia,* vegetables 6600
***Colletotrichum***
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
avocados
control 8662
New Zealand 512, 8662
postharvest decay 8662
biochemistry, lectins 6534
books 7174
cocoa
environmental factors 560
Indonesia 560
coffee, Indonesia 6266
crops
biological control 6618
reviews 6615, 6618
genetics, reviews 6532
Leguminosae, reviews 6614
life cycles, reviews 6535
maize
isolates 824
molecular genetics 824
molecular genetics
genetic transformation 6533
genome analysis 6533
reviews 6533
pathogenicity, reviews 6535
*Piper nigrum*
control 7150
environmental factors 7150
plants
host parasite relationships 6613
resistance 6613
reviews 6613
potatoes, Russia 4518
*Sechium edule,* storage 3793
sexual reproduction, reviews 6532
sorghum
isolates 824
molecular genetics 824
strawberries, Florida 1063
*Stylosanthes,* genetics 7350
taxonomy, reviews 6564
tropical fruits
host parasite relationships 6975
latent infections 6975
weeds
biological control 7169
reviews 7169
***Colletotrichum acutatum***
*Acer palmatum,* Connecticut 5558
apples
control 3819
USA 3819
*Cornus florida*
Connecticut 7106
***Colletotrichum acutatum*** *cont.*
*Cornus florida cont.*
Florida 3172
strawberries
control 7770
Florida 7770
forecasting 7772
genetic variation 7776
genetics 476
Honshu 5422-5423
models 2244
Ohio 477, 7772
overwintering 477
spore dispersal 2244
taxonomy 7768
***Colletotrichum boehmeriae, Boehmeria nivea,*** Jiangxi 8745
***Colletotrichum capsici***
appressoria, potassium 4203
*Capsicum*
control 2204, 6126, 8584
West Bengal 8584
cowpeas, control 2147
*Desmodium obcordatum,* Assam 3400
*Ipomoea lacunosa,* biological control 1188
laboratory tests, plant oils 8119
*Peperomia,* Assam 3400
*Piper betle*
Assam 3193
control 7977
environmental factors 3193
organic amendments 7977
*Polygonum chinense,* Assam 3400
***Colletotrichum coccodes***
*Capsicum,* Korea Republic 7704
potatoes
antagonists 2822
control 6616, 8486
distribution 2830
drying 6814
epidemiology 2830
host range 6616
infection 4528
injuries 4526
moisture 4526
Nebraska 983
reviews 6616
storage 6814
UK 8486
Washington 2830
yield losses 4528
Yugoslavia 6057
tomatoes
control 6616
host range 6616
reviews 6616
***Colletotrichum curvatum***
*Crotalaria juncea*
genotypes 8744
West Bengal 8744
***Colletotrichum dematium***
*Capsicum,* seeds 1560
*Catharanthus roseus,* Florida 6340
*Croton tiglium*
control 8822
Madhya Pradesh 8822
guar
crop growth stage 1500
varietal reactions 2818
onions, culture media 5306
soyabeans
Himachal Pradesh 4466
varietal reactions 4466
spinach
California 5317
Ontario 8518
USA 8518
vegetative compatibility groups 8518
virulence 8518
sporulation, light relations 1873
*Thymus*
Austria 5609
Spain 5609
*Vigna mungo,* pathogenicity 5280
*Vigna radiata,* epidemiology 7627
***Colletotrichum dematium* f.sp. *spinaciae***
sugarbeet
Hokkaido 1649
reviews 1649
***Colletotrichum gloeosporioides*** *(see Glomerella cingulata)*
***Colletotrichum gloeosporioides* f.sp. *aeschynomene***
*Aeschynomene virginica*
Arkansas 3210
biological control 1189, 2425, 3210
spore dispersal 2425
transmission 1189
vectors 3210
molecular genetics
fungicide tolerance 4185
genetic transformation 4185
nucleotide sequences 7338
rice, spore dispersal 2425
weeds, biological control 7168
***Colletotrichum gloeosporioides* f.sp. *malvae***
*Malva pusilla*
biological control 5615, 7992
Canada 7992
***Colletotrichum gloeosporioides* f.sp. *manihotis***
cassava
breeding 6831
inoculation 6833
Zaire 6831
***Colletotrichum gossypii***
cotton
control 5517
inoculation 571
seeds 571, 5517
***Colletotrichum gossypii* var. *cephalosporioides***
cotton
inoculation 571
pathogenicity 5516
seeds 570-571, 7072
varietal reactions 5516, 7072
***Colletotrichum graminicola***
maize
biological control 2066
host parasite relationships 6633
reviews 6633
seeds 2712
varietal reactions 8349
millets
conidia 6635
control 6635
molecular genetics
genetic transformation 3370
nucleotide sequences 3370
sorghum
air pollution 3610
antagonists 6707
breeding 8357
conidia 6635
control 6635
culture media 6706
genetics 1428
host parasite relationships 3613, 3622, 6633
infection 3613
isolates 309
Minas Gerais 1436
molecular genetics 309
phytoalexins 891, 3622, 8357
pigments 891
reviews 895, 6633
spore germination 6706
Tanzania 4404
varietal reactions 1434, 1436, 1441, 3609
*Trichoderma harzianum,* antagonism 6707
*Trichoderma koningii,* antagonism 6707
*Trichoderma pseudokoningii,* antagonism 6707
*Trichoderma viride,* antagonism 6707
*Vigna mungo,* pathogenicity 5280
***Colletotrichum helianthi,*** sunflowers, Cuba 7818
***Colletotrichum hibisci,*** kenaf, varietal reactions 577
***Colletotrichum indicum***
physiology
environmental factors 567
growth 567
***Colletotrichum lagenarium*** *(see Colletotrichum orbiculare)*
***Colletotrichum lindemuthianum***
biochemistry, enzymes 5771

***Colletotrichum lindemuthianum*** *cont.*
cowpeas
testing 967
varietal reactions 967
*Phaseolus vulgaris*
breeding 6778, 6785
control 946, 5261, 6780
cytochemistry 1491
elicitors 2120, 7608
host parasite relationships 1491, 2120, 2793
molecular genetics 2120, 7608
Ontario 6785
population dynamics 6785
races 367, 2793
reviews 2124
Rwanda 946
São Paulo 367, 5261, 6778, 6780
seeds 946, 6785
varietal reactions 4476, 6780
serology, monoclonal antibodies 3426
*Vigna mungo*, pathogenicity 5280
*Vigna radiata*, epidemiology 7627
***Colletotrichum lini***
flax, genetics 7077
linseed, UK 8673
***Colletotrichum magna***
Cucurbitaceae
pathogenicity 446
screening 446
***Colletotrichum malvarum***, serology, monoclonal antibodies 3426
***Colletotrichum mangiferae***, mangoes, characteristics 3004
***Colletotrichum musae***
bananas
characteristics 3004
inoculum 2261
pathogenicity 3869
Windward Islands 3869
laboratory tests, plant extracts 1832
taxonomy
genetics 2542
mating types 2542
***Colletotrichum orbiculare***
biochemistry, melanin 7313
*Citrullus colocynthis*, genetics 5368
cucumbers, induced resistance 1026
serology, monoclonal antibodies 3426
watermelons
control 1035, 2916
genetics 5368
Karnataka 2916
screening 7713
*Xanthium spinosum*
Australia 6358
biological control 6358
***Colletotrichum trifolii***
lucerne
biological control 2765
host parasite relationships 933
phytoalexins 4456
*Ornithopus sativus*, phytoalexins 8422
serology, monoclonal antibodies 3426
*Trifolium repens*
assessment 7582
North Carolina 2096, 7582
sulfur dioxide 5834
***Colletotrichum truncatum***
cowpeas
testing 967
varietal reactions 967
culture, oxygen 8164
laboratory tests, plant extracts 2481
*Sesbania exaltata*
bacteria 6357, 8847
biological control 3208, 6357, 8847
conidia 1763
nutrients 1763
soyabeans
control 6768
fertilizers 6768
*Vigna mungo*
control 3708
Himachal Pradesh 3708
**Colloquia** (*see* Conferences)
***Colocasia***, diseases, quarantine 991
***Colocasia antiquorum***
*Acremonium roseolum*
storage 3742
Uttar Pradesh 3742
***Colocasia antiquorum*** *cont.*
*Botryodiplodia theobromae*
storage 3742
Uttar Pradesh 3742
*Stenella colocasiae*
taxonomy 750
West Bengal 750
***Colocasia esculenta***
dasheen mosaic potyvirus, Cuba 2820
*Fusarium oxysporum*, yield losses 1532
*Phytophthora colocasiae*
control 992
reviews 6836
varietal reactions 992, 6835
yield losses 6835
*Pythium myriotylum*, Cameroon 418
*Xanthomonas campestris* pv. *zantedeschiae*, Venezuela 7658
**Colombia**
asparagus, *Cercospora asparagi* 2878
bananas, *Pseudomonas solanacearum* 3009, 4661
carnations, *Heterosporium echinulatum* 3182
cassava
diseases 6065
*Xanthomonas campestris* pv. *manihotis* 2854
*Cavendishia pubescens*, *Phomopsis* 1757
cocoa
*Crinipellis perniciosa* 4737, 4742-4750
diseases 4736
faba beans, viruses 2786
*Furcraea*, furcraea necrotic streak virus 1141
garlic, *Sclerotium cepivorum* 2859
*Lilium*, *Botrytis* 4873
oil palms, spear rot 7020
*Passiflora ligularis*, *Glomerella cingulata* 3036
*Phaseolus vulgaris*
*Alternaria alternata* 2794
*Fusarium oxysporum* f.sp. *phaseoli* 6777
rice
*Magnaporthe grisea* 6740
*Rhizoctonia solani* 6739
*Rubus*, *Gloeosporium* 4633
seed certification, reviews 1957
seed production, reviews 1957
sorghum, *Peronosclerospora sorghi* 2721
*Sorghum halepense*, *Peronosclerospora sorghi* 2759
soyabeans, *Cylindrocladium scoparium* 5998
strawberries, *Gloeosporium* 4638
sugarcane
*Puccinia melanocephala* 6255
sugarcane mosaic potyvirus 6255
*Ustilago scitaminea* 6255
tomatoes, *Xanthomonas campestris* pv. *vesicatoria* 2200
weeds, *Xanthomonas campestris* pv. *vesicatoria* 2200
***Colpoma quercinum***
*Quercus petraea*
Austria 7094
endophytes 7094
*Quercus robur*
decline 7093
Germany 7093
wood, laboratory tests 2377
***Comandra umbellata***
*Cronartium comandrae*
alternative hosts 8794
Wyoming 8794
***Commelina benghalensis***, *Cercospora benghalensis*, West Bengal 753
**Commelina yellow mottle badnavirus**, molecular genetics, gene expression 1936
**Common millet** (*see Panicum miliaceum*)
**Composts**
activity
bacteria, phyllosphere 6609
*Botrytis cinerea*, grapes 6187
*Fusarium oxysporum* f.sp. *lini*, flax 7429
*Phomopsis sclerotioides*, cucumbers 7429
**Composts** *cont.*
activity *cont.*
*Phytophthora fragariae* var. *rubi*, raspberries 7762
plant pathogens, respiration 1893
*Sclerotinia homoeocarpa*
*Agrostis stolonifera* var. *palustris* 345
*Poa annua* 345
control
*Erysiphe polygoni*, *Phaseolus* 6609
*Phytophthora infestans*, tomatoes 6609
plant pathogens, soil 3385
**Conferences**
Acid depositions in Europe: environmental effects, control strategies and policy options 639
Adjuvants for agrichemicals 6426-6428, 6443, 6603, 6818, 8076-8080, 8087
Advances in management and conservation of soil fauna 5711, 5721
Advances in pulses research in Bangladesh 954
African cotton research 575
Allelopathy in agroecosystems (agriculture forestry) 2733, 8040
Alternative systems in plant protection 1193
American Chemical Society 25-27, 32-35, 37-40, 223
American Phytopathological Society 645, 2433, 4908-4910, 5132, 5284, 5386, 5469, 6371, 8866-8867
Applied biotechnology 1785, 1789, 2325
Apricot culture 2228-2230, 2232-2241, 7748-7749
Asian-Pacific Weed Science Society 632
Aspects of the pathology of oak trees 8772
Association of Austrian Plant Breeders 2669, 3496-3498, 3507, 3539, 3553-3554, 3566, 3590-3591, 3662, 3682
Atrazine and other pesticides 8075
Austrian system for monitoring forest damage 6287
Beltsville symposia in agricultural research 1304
Beltwide cotton production conference 1133-1134
Biochemical Society, UK 7881
Biological control of pests and diseases 118
Biological control of soil-borne diseases 9-12, 15, 70, 99-101, 104, 112-113, 120-121, 144-147, 226-230, 273-276, 282, 286, 292, 337, 397, 401-402, 407, 411, 423, 432, 441, 449-450, 471, 473, 540-543, 569, 576, 581, 593, 601, 612-621, 644, 746
Biological control quarantine 1767
Biological crop protection 1970-1971
Biological monitoring of genetically engineered plants and microbes 659, 669, 853, 1194
Botanical pesticides in integrated pest management 5622, 6464, 6602, 6718, 6764, 6886, 6999, 7056-7057
*Botrytis cinerea* on chickpeas 5276
Brighton Crop Protection Conference, Pests and Diseases 8023, 8043-8055, 8058-8059, 8085, 8094-8101, 8107-8112, 8188-8189, 8250, 8256, 8261-8262, 8265-8269, 8284-8287, 8297, 8308-8310, 8317-8318, 8323, 8331, 8350, 8365, 8486, 8489, 8491, 8504, 8514-8515, 8517, 8607, 8610, 8630, 8653, 8662, 8667, 8671-8673, 8676-8678, 8695, 8705-8706, 8713, 8734, 8865
Canadian Pest Management Society 7450, 8786
Canadian Phytopathological Society 1768-1769, 6374
Cellular and molecular aspects of the plant hormone ethylene 8550, 8732
Chemistry and fate of modern pesticides 4949-4950, 5679-5680, 8070, 8074, 8116-8117

**Conferences** *cont.*
Chickpea in the nineties 374-375, 378-379, 641
Citrus pest problems and their control in the Near East region 5439
Codex Committee on Pesticide Residues 60
Computer-based plant protection advisory systems 129, 132-139, 225, 235-240, 268, 393, 517, 5662-5663, 5792-5795, 5853, 6139, 6370
Congreso Venezolano de Fitopatología 6377
Congress of Croatian Biologists 7133
Conservation of plant genetic resources through *in vitro* methods 3320, 3416
Cover crops for clean water 7074
Current trends in disease management 8864
Danish Plant Protection Conference, Pests and Diseases 5685-5687, 5776, 5837-5839, 5844-5845, 5851, 5864-5866, 5892, 5899, 6053, 6161, 6265, 6271, 6339, 6376, 7235-7236, 7435-7436, 7446, 7448, 7473-7476, 7482, 7612, 7634, 7638, 7640, 7647, 7816, 8004
Development and application of IPM for vegetable production in Africa 5626
Ecology of terrestrial orchids 1276-1277
EPPO council colloquium 1191
European Association for Potato Research 2821
European Society for Agronomy 7452
Fifth international symposium on postharvest physiology of ornamental plants: importance of cold in ornamental horticulture 3992
First international weed control congress 3258-3259, 4023, 4029, 4034, 6414, 7167, 7992, 7995, 7997-7998, 8847
Food and the environment: IPM meets the 21st century 4908-4910, 5132, 5284, 5386, 5469
Forest pests and diseases 7080
Forum for applied biotechnology 7196, 7690
Fungi and biotechnology 90, 98
Fungicide Resistance Action Committee 254, 7253
*Ganoderma* workshop 2312-2318, 2371
Genetics and breeding of *Agaricus* 3415, 4017
Genetics and breeding on capsicum and eggplant 6855, 6877-6883
German Meteorological Society 3215
Hawaii Macadamia Nut Association 7813-7814
Hawaiian Sugar Technologists 509, 532
Horticulture — new technologies and applications 3333
*In vitro* culture and horticultural breeding 6210
*In vitro* micrografting 1318, 1584, 1593, 1600
Indian Mycological Society 654
Indian Society of Mycology and Plant Pathology 5211, 5623
Indian Society of Plant Pathologists 8864
Innovative technology in the field of orchard fruit growing 1039
INRA-Ctifl colloquium on fruit research 4628
Integrated control in protected crops under Mediterranean climate 1359
Integrated control in viticulture 4641
Integrated control of pests and diseases in protected crops and greenhouses 6594, 6601
Integrated control of plant virus diseases 2567-2569, 2730, 2776, 2856, 3003, 3013, 3019, 3035, 3076, 3216
Integrated land use management for tropical agriculture 3323
Integrated pest management in tropical and subtropical cropping systems 2337, 2366, 8001-8003
Integrated pest management (IPM) in the vineyard 481

**Conferences** *cont.*
Integrated plant protection in orchards (ISIPPO) 2926-2927, 2929, 2935, 2937, 2941, 2943-2947, 2949-2954, 2956-2959, 2963-2964, 2967, 2971, 2974
Interamerican Society for Tropical Horticulture 2145, 2260, 2410
International asparagus symposium 6854, 8145, 8521-8537
International *Botrytis* symposium 5744-5757, 5798, 5826-5833, 6071-6072, 6078-6079, 6098-6100, 6150, 6165, 6173, 6181-6190, 6195, 6327, 6329, 6343, 6346, 6375
International colloquium on roadside trees 7956
International conference on biochemical analysis 8068-8069
International congress of pesticide chemistry (IUPAC) 17, 28, 31, 42-45, 55-58, 83-88, 1797-1799, 1823
International Congress of Plant Physiology 1657
International controlled atmosphere research conference 2220-2221, 3015, 3736, 3758, 3830, 3863
International Horticultural Congress 6143, 6166
International legume conference 1841, 1847, 1956
International Plant Propagators' Society 2400
International seminar on harmonization of phytosanitary regulations 7272
International seminar on mushroom science 628-630
International symposium on *Acremonium*/grass interactions 8402-8413
International symposium on aquatic weeds 5610
International symposium on arcto-alpine mycology 8129-8133, 8175
International symposium on biological control of weeds 5612-5615, 5617-5621, 6358-6359, 6361-6362, 6364-6368
International symposium on biosafety results of field tests of genetically modified plants and microorganisms 7182
International Symposium on Crop Protection 6435-6436, 6453-6455, 6608-6610, 6690, 6719, 6783-6784, 6869-6870, 6902, 6917, 6964, 7021, 7180, 7191, 7239, 7251-7252, 7391, 7400, 7417, 7443-7444, 7456, 7471, 7477, 7501, 7602, 7610, 7616, 7651-7652, 7656, 7666, 7688, 7720, 7780, 7822, 7851, 7853-7855, 7948, 7982-7983, 8018, 8027
International symposium on environmental aspects of pesticide microbiology 3220, 3304-3311
International symposium on kiwifruit 1859-1860, 2259, 3001-3002
International symposium on mango 3024-3025, 3877
International symposium on pseudomonads: biology and biotechnology 8026
International symposium on soil biology 6547
International symposium on the biology of weeds 7295
International symposium on the molecular genetics of plant-microbe interactions 653, 655, 657, 662-663, 665-667, 811-814, 852, 871, 883-884, 977, 1011, 1015, 1026, 1053, 1127, 1179
International symposium on the role of sulphur, magnesium and micronutrients in balanced plant nutrition 2602-2603, 2631, 2867
International symposium on virus and virus diseases of temperate fruit crops 643
International Weed Control Conference 3207

**Conferences** *cont.*
International Working Group on *Pseudomonas syringae* pathovars 4712
Iranian Phytopathological Society 1771
Israeli Phytopathological Society 8005
Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Expert Group on Pesticide Residues 8067
Landscape ecological impact of climatic change 5527
Leaf scald disease symposium 3914
Molecular biology of filamentous fungi 102, 107-108, 131, 215-216, 329, 437
Molecular methods for potato improvement 387-388, 390
*Musa* conservation and documentation 4659
Mycorrhizae in sustainable agriculture 4118-4120, 4153-4155
Mycotoxin prevention and control in foodgrains 4173, 4190, 4396-4397, 4900
National congress on integrated pest management 3
National Phytopathology Congress, Venezuela 2561, 2607, 2722, 3011
Naturally occurring pest bioregulators 640
New Zealand Pest and Weed Control Conference 1818-1819
New Zealand plant protection conference 7454, 7573, 7583, 7614, 7618, 7631, 7684, 7735-7736, 7741-7742, 7747, 7750, 7755, 7783, 7789-7791, 7794, 7799, 8637
Nitrate and farming systems 4216, 4357
Non-chemical approaches to crop protection in horticulture 3385-3386, 3418-3419, 3439, 3469-3471, 3744, 3751, 3786, 3882, 4039
North American alfalfa improvement conference 7564, 7575, 7579-7580
O desafio das florestas neotropicais 8753
Parasitis 88 2932
Perspectives in mycological research 7172
Pest management and the environment in 2000 642, 5631-5634, 5639-5640, 5667-5669, 5944, 6283, 6378
Pest management in rice 5936-5938, 5946, 5951-5953, 5955-5956, 5961, 5967
Pesticide formulations and application systems 1222, 3222, 3256, 3271-3274, 3278-3283
Pesticide residues and food safety 36, 46-52, 72
Pesticide residues in food 4957
Pesticide transformation products. Fate and significance in the environment 4109-4110
Philippine Sugar Technologists Association 7849
Phytopathological Society of Japan 7398-7399, 7430, 7972, 8006-8017, 8019
Plant biochemistry and physiology 1969
Plant breeding and sustainable agriculture 4274
Plant disease conference, France 7242
Plant gene transfer 7608, 7880
Plant health in sugarcane 3074
Plant mutation breeding for crop improvement 234, 246, 267, 283, 339, 426, 549
Plant Pathology Society of Alberta 6373
Plant protection in the tropics 1973, 4031
Plant Protection Society, Taiwan 6372
Plant responses to pests and pathogens 4901
Plant roots and their environment 4121, 4145, 4168-4169
Ploidy and chromosome manipulation in forage breeding 8398
Polish Institute of Plant Protection 220
Polish Phytopathological Society 5075, 5288-5290, 5408, 5418, 5485, 5569, 5583, 5587, 5598-5599

**Conferences** *cont.*
Polish Plant Virologists 5075, 5288-5290, 5408, 5418, 5485, 5569, 5583, 5587, 5598-5599
Potyvirus taxonomy 156, 158-161
Production protection of potatoes 6031-6032, 6038, 6046-6048, 6054, 6058-6059, 6062
Production of vegetables in the tropics and subtropics 4541
Production, post-harvest technology and utilization of potato in warm tropics 7632
Protection of the health of workers exposed to agrochemicals 1247
Recent advances in entomological research in Taiwan 8237
Regional groundnut workshop for southern Africa 5470, 5477-5478, 7828
Regional wheat workshop for eastern, central and southern Africa 1978, 1993, 1995, 1999-2000, 2007, 2014, 2021, 6649-6650, 6688, 8273-8275, 8289, 8295-8296, 8311-8312, 8319, 8333
Rice Genetics II 1949, 2079
Rice germplasm. Collecting, preservation, use 5942, 5969
SAARC training course on virus detection methods in potato 7637
Safe disposal of amenity pesticides 61-66
São Paulo Congress of Plant Pathology 1196
São Paulo Congress on Phytopathology 6438-6439, 6456, 6621, 6635, 6708, 7173
Second Israeli-Italian Phytopathological Symposium 4040
Selection and improvement of horticultural plants 2618, 2790, 8516, 8539, 8573, 8579-8580, 8587, 8590-8592, 8863
SIG et gestion des sols: Potentialites et limites d'application 8057
Simposio sobre a floresta e o ordenamento do espaco de montanha 2391
Society of Chemical Industry Pesticides Group 2453-2456, 2472-2474, 2936, 3214
Society of Irish Plant Pathologists 5624-5625
Society of Medicinal Plant Research 8120
Soil biology and the conservation of the biosphere 2475, 2484
South African Society for Plant Pathology 1770
South African Sugar Technologists' Association 533
Southeastern Pecan Growers Association 4691-4694
State Horticultural Association of Pennsylvania 3814, 3819-3820, 3826
Sustainable agricultural research and education in the field 3817
Swedish Crop Protection Conference 7353, 7423-7424, 7439, 7470, 7493, 7643-7645, 8024, 8062-8065, 8178, 8238-8241, 8482-8483
Symposium on fireblight 458
Symposium on our Environment 3303
Technology blending and agrarian prosperity 7388
Technology in sustainable and environmentally-compatible viticulture 2942, 2982, 2989, 2991
The importance of taxonomy in plant pathology 3405
The strawberry into the 21st century 3849-3850, 6171-6172, 7766-7769, 7771-7772
Tropical agriculture research 1974
Tropical fruit in international trade 510
Turkish Phytopathological Congress 1195
Uses and applications of antisense oligonucleotides 7881
Using mesocosms to assess the aquatic ecological risk of pesticides: theory and practice 7259-7262
Virus diseases of temperate fruit crops 3434, 3451-3452, 3813, 3815, 3818, 3833, 3836-3837, 3839, 3844, 3938, 4623
Weihenstephaner Hochschultagung 7088
West Indies Sugar Technologists' Conference 3082, 7040
Wheat for the nontraditional warm areas 1850, 1985-1986, 1990, 2018, 2025, 5157-5158, 5165-5166
Working party on plant protection products 1192
Workshop on quarantine for seed in the Near East region 646
Workshop on the Ecological Foundations of Sustainable Agriculture 1-2, 318, 648
Yugoslavian symposium on plant protection 3223
**Congo,** *Pinus caribaea*, mycorrhizas 3325
***Conidiosporomyces*,** taxonomy, new genus 778
***Conidiosporomyces ayresii*,** taxonomy, new combination 778
***Coniella diplodiella***
grapes
China 2252
screening 2252
*Vitis*
China 2252
screening 2252
***Coniella petrakii*,** IMI distribution maps 3389
**Coniferae**
air pollution, waxes 7930
*Cylindrocarpon*
Nematoda 8786
Ontario 8786
diseases
Canada 5549
cones 5549
Pennsylvania 6301
seeds 5549
*Fusarium*
Nematoda 3147, 8786
Ontario 8786
Russia 3147
*Heterobasidion annosum*
soil biology 593
survival 593
*Racodium therryanum*
Hokkaido 6300
susceptibility 6300
root rots, Sweden, reviews 1161
***Coniothyrium*,** control, *Leucostoma cinctum*, apricots 2230
***Coniothyrium fuckelii***
jute, Assam 3400
raspberries
control 6167
France 6167
roses
quarantine
India 2406
seeds 2406
***Coniothyrium minitans***
antagonism, *Sclerotinia sclerotiorum* 1872
biological control, reviews 1294
biology, reviews 1294
control
*Sclerotinia sclerotiorum*
celery 3469, 8504
lettuces 3469, 8504
soyabeans 2608
sunflowers 2608
culture media 6579
hyperparasitism, *Sclerotinia sclerotiorum* 1626, 7016
***Coniothyrium sporulosum***
*Juniperus*
environmental factors 2404
spore germination 2404
**Controlled atmosphere storage**
activity
*Alternaria alternata*, persimmons 3882
apples, storage decay 2220
*Botrytis cinerea*, kiwifruits 6195
**Controlled atmosphere storage** *cont.*
control
apples, storage decay 1046
*Botrytis cinerea*, strawberries 4639
celery, storage decay 3758
cherries, storage decay 7750
kiwifruits, storage decay 3863
maize, storage decay 3595
strawberries, storage decay 5419
***Convolvulus arvensis***
diseases, Haryana 8859
*Fusarium pallidoroseum*, Haryana 8859
**Cook Islands**
*Vanilla fragrans*, viruses 4011
*Vanilla tahitensis*
vanilla mosaic potyvirus 1182
viruses 4011
**Copper**
activity
*Pseudomonas syringae* pv. *maculicola*, cauliflowers 8517
*Pyrenophora graminea*, barley 5897
*Xanthomonas campestris* pv. *vesicatoria* 6128
*Capsicum* 1010
tomatoes 1010
control
*Peronospora destructor*, onions 425
*Peronospora humuli*, hops 2419
*Phytophthora infestans*, potatoes 398
rice, diseases 7535
*Taphrina deformans*, peaches 7760
deficiency
*Artocarpus heterophyllus* 3005
cereals 2631
guavas 3005
mangoes 3005
pineapples 3027
fungicide residues, soil 2477
toxicity 8655
citrus 8655
mandarins 4678
rice 3659
**Copper carbonate,** control, *Diplodia rosarum*, roses 4855
**Copper hydroxide**
activity
bacteria 4055
melons 445
control
*Alternaria citri*, tangelos 7799
avocados, postharvest decay 8662
*Diaporthe citri*, tangelos 7799
*Macadamia*, decline 7813
*Phytophthora infestans*, potatoes 975
*Pseudomonas syringae* pv. *tabaci*, tobacco 8715
*Xanthomonas campestris* pv. *vesicatoria*, *Capsicum* 1025
phytotoxicity, chickpeas 6801
**Copper oxide,** control, *Phytophthora palmivora*, cocoa 1654
**Copper oxychloride**
activity
*Alternaria helianthi* 2310
bacteria 4055
peaches, phylloplane fungi 2242
*Pyricularia oryzae* 8378
*Rhizopus oryzae* 6116
*Septoria apiicola* 7248
sugarbeet, diseases 535
*Taphrina pruni*, plums 2975
control
*Akaropeltopsis*, avocados 2280
*Alternaria alternata*, chickpeas 968
*Ascochyta*, grapes 6970
*Camptomeris albizziae*, *Albizia lebbek* 8780
*Colletotrichum orbiculare*, watermelons 1035
*Entyloma australe*, *Physalis ixocarpa* 6909
*Erysiphe polygoni*, *Vigna radiata* 383
*Glomerella cingulata*, olives 7826
*Hemileia vastatrix*, coffee 3928
hops, diseases 8832
*Macrophomina phaseolina*, guavas 7006
mangoes, diseases 7801
*Nectria galligena*, apples 6148

**Copper oxychloride** *cont.*
control *cont.*
*Peronospora destructor*, onions 422, 425, 6075
*Phytophthora infestans*, potatoes 2159
pigeon peas, seedborne fungi 3706
*Pseudocercospora abelmoschi*, okras 5385
*Pseudocercospora purpurea*, avocados 2280
*Pseudomonas syringae* pv. *syringae*, apricots 8621
*Pseudomonas syringae* pv. *tabaci*, tobacco 8715
*Pseudomonas syringae* pv. *tomato*, tomatoes 2199
*Pseudoperonospora cubensis*
cucumbers 1036
melons 2920
*Puccinia melanocephala*, sugarcane 1643
*Puccinia psidii*, guavas 3886
*Taphrina deformans*, nectarines 1060
*Ustilago scitaminea*, sugarcane 6257
*Xanthomonas campestris* pv. *vignicola*, cowpeas 7630
*Xanthomonas campestris* pv. *viticola*, grapes 2999
formulations 6452
fungicide residues, vegetables 1830
fungicide tolerance, *Aspergillus niger* 8690
phytotoxicity, grapes 6970
**Copper oxyquinolate,** seed treatment, wheat 3516
**Copper sulfate**
activity, *Phytophthora capsici* 7700
control
cowpeas, diseases 2145
*Taphrina deformans*, nectarines 1060
tomatoes, postharvest decay 6105
**Copper tallate**
activity, crops, diseases 8101
control, *Botrytis cinerea*, grapes 4649
***Coprinus cinereus***
cotton
environmental factors 7896
New South Wales 7896
***Coprinus psychromorbidus***
apples
British Columbia 1581
inoculum 1581
storage 1581
lucerne
Saskatchewan 347
yield losses 347
preservation 3415
wheat, testing 2022
***Copturus aguacatae,*** interactions, *Phytophthora cinnamomi*, avocados 7011
***Corchorus capsularis*** (*see* Jute)
***Corchorus olitorius*** (*see* Jute)
***Cordana musae***
bananas
Malawi 493
varietal reactions 492-493
***Cordia alliodora***
mycorrhizas
growth 4152
Mexico 4152
**Coriander chlorotic lesion virus,** *Coriandrum sativum*, Haryana 5597
***Coriandrum sativum***
coriander chlorotic lesion virus, Haryana 5597
diseases, breeding 3200
*Erysiphe polygoni*, control 7152
fungi, varietal reactions 4884
*Glomerella cingulata*
susceptibility 4880
toxins 3198
*Protomyces macrosporus*
control 8828
Himachal Pradesh 8828
*Pseudomonas*, Yugoslavia 4015
*Ramularia coriandri*
host parasite relationships 7981
phenolic compounds 7981
*Sclerotinia sclerotiorum*, physiology 7980
***Coriandrum sativum*** *cont.*
seedborne fungi
control 8828
Himachal Pradesh 8828
***Coriolopsis aspera,*** forest trees, Taiwan 2378
***Coriolopsis floccosa,*** forest trees, Taiwan 2378
***Coriolus versicolor***
biochemistry, enzymes 1869
*Populus*
defence mechanisms 7916
discoloration 7916
*Pseudotsuga menziesii*, biological control 3991
*Trichoderma harzianum*, antagonism 4192
**Corn** (*see* Maize)
***Cornegenapsylla sinica,*** transmission, longans, witches' brooms 8657
***Cornus***
*Discula*
control 1175, 3129, 7130
symptoms 7130
varietal reactions 1175
Washington 1175
*Discula destructiva*, culture media 3983
***Cornus florida***
acid rain
Indiana 7929
nutrients 7929
*Colletotrichum acutatum*
Connecticut 7106
Florida 3172
*Discula destructiva*
ecology 7105
environmental factors 588, 3146
infection 3146
North Carolina 588, 3146, 7105
plant density 588
***Cornus stolonifera,*** *Cytospora*, Oregon 8768
***Corticium bicolor,*** laboratory tests, pesticides 4124
***Corticium rolfsii***
*Angiopteris evecta*, pathogenicity 8820
aubergines, varietal reactions 1017
barley
control 289, 2046
edaphic factors 1411
heavy metals 289
biochemistry
cell walls 5005
proteins 7328
biology, reviews 1288
*Capsicum*, mycorrhizas 8585
carrots
control 987
Santa Catarina 987
chickpeas
Andhra Pradesh 6798
biological control 232
control 377, 6022
Ethiopia 377
India 232
integrated control 4497
screening 7619
*Chlorophytum comosum*, Honshu 5577
coffee
control 7865
Karnataka 7865
cucumbers, biological control 8167
*Delphinium elatum*, Honshu 5577
*Eucalyptus grandis*
environmental factors 3135
Kerala 3135
nurseries 3135
faba beans
epidemiology 7604
Manipur 7604
garlic
symptoms 7663
Tamil Nadu 7663
*Gliocladium virens*, antagonism 5004
groundnuts
Alabama 1102
biological control 232
control 1102, 3070, 3072, 8695
Georgia 3070
India 232
Madhya Pradesh 3069
Oklahoma 1101
***Corticium rolfsii*** *cont.*
groundnuts *cont.*
Orissa 5476
rotations 3903
sclerotia 5476
survival 5476
symptoms 3069
Texas 8688
tillage 1100
USA 8695
varietal reactions 8688
yield losses 1102
IMI distribution maps 3389
laboratory tests
fungicides 7241
heat treatment 5774
plant extracts 1831, 2045
lentils
biological control 232
India 232
mangoes
dieback 3022
Himachal Pradesh 3022
*Marattia salicina*, pathogenicity 8820
*Phaseolus vulgaris*, biological control 2125, 3480
*Pinellia ternata*, biological control 1745
*Piper betle*, control 7153
*Piper nigrum*
control 7150
environmental factors 7150
*Pleurotus flabellatus*, physiology 4019
*Populus*, Uttar Pradesh 4809
potatoes
control 7650
varietal reactions 6824
rhizosphere fungi, antagonism 1487
rice, biological control 337
sclerotia 1886
sesame, biological control 1105
*Setaria italica*, screening 4405
soil
control 4211, 5031, 6543
Orissa 5476
sclerotia 5476
soil flora 4211
survival 5476
*Solidaster luteus*, Honshu 5577
soyabeans
control 357, 5841, 6765
Japan 357
Mexico 6765
seeds 6765
strawberries, Honshu 5421
*Stylosanthes scabra*, Uttar Pradesh 7585
sugarbeet
biological control 4731
enzymes 2336
salinity 2336
sunflowers
seeds 3896
survival 3896
*Talaromyces flavus*, antagonism 2125
taxonomy, teleomorph 1297
tomatoes, biological control 8564
*Trichoderma*
antagonism 8167
hyperparasitism 8167
water chestnuts
environmental factors 8833
Kyushu 1613
sclerotia 8833
wheat
mycorrhizas 278
pathogenesis 857
***Corticium salmonicolor***
*Acacia auriculiformis*, Kerala 5542
*Albizia falcataria*
Philippines 5546
symptoms 5546
apples
environmental factors 4615
Himachal Pradesh 4615
cocoa
control 552
Solomon Islands 552
Western Samoa 7872
*Hevea brasiliensis*, biological control 5523
***Corticum solani*** (*see Thanatephorus cucumeris)*

***Corydalis ochotensis***
*Sphaerotheca koreana*
Korea Republic 6553
taxonomy 6553
***Corylus avellana*** (*see* Hazelnuts)
***Corynebacterium***
laboratory tests
antibiotics 4055
fungicides 4055
***Corynespora cassiicola***
cowpeas, Trinidad and Tobago 4266
cucumbers, Trinidad and Tobago 4266
*Euphorbia pulcherrima*, Louisiana 7127
*Hevea brasiliensis*
control 1144
Malaysia 6285
Sri Lanka 578
symptoms 1144
India 3402
*Perilla frutescens*, Japan 7145-7146
sesame, control 8696
soyabeans
control 6765
Korea Republic 5252
Mexico 6765
seeds 6765
varietal reactions 5252
tomatoes, Trinidad and Tobago 4266
**Costa Rica**
*Alnus acuminata*, *Rosellinia bunodes* 587
*Capsicum*
*Erwinia carotovora* 442
*Erwinia chrysanthemi* 442
*Pseudomonas* 442
*Pseudomonas fluorescens* 442
coffee, *Hemileia vastatrix* 2337
*Impatiens walleriana*, tomato spotted wilt tospovirus 6337
maize
maize rayado fino marafivirus 1977, 7497
mycoplasma-like organisms 1977
*Spiroplasma* 1977
potatoes, diseases 386
*Quercus costaricensis*, mycorrhizas 7289
***Costus speciosus***
*Pyricularia costina*
taxonomy 759
West Bengal 759
**Côte d'Ivoire**
bananas, *Fusarium oxysporum* 1598
*Hevea brasiliensis*
*Phellinus noxius* 7902
phloem necrosis 1142-1143
*Rigidoporus lignosus* 7902
okras, okra leaf-curl bigeminivirus 1569
*Oryza glaberrima*, *Magnaporthe grisea* 3641
yams, yam mosaic potyvirus 4534
**Cotton** (*Gossypium* spp.)
*Alternaria*
environmental factors 6278
honeydew 6278
toxins 3954
*Alternaria alternata*, antibiotics 3952
*Alternaria macrospora*
control 1673
Israel 1673, 7893
models 573
monoculture 7893
virulence 7893
yield losses 573
*Aspergillus flavus*
control 3947
seeds 3947
toxins 3947
bacteria
Africa 575
biological control 574
control 575
fertilizers 574
Texas 574
boll rot, control 5514
*Botryodiplodia theobromae*
control 5517
seeds 5517
*Cladosporium herbarum*
environmental factors 6278
honeydew 6278
*Colletotrichum gossypii*
control 5517
**Cotton** *cont.*
*Colletotrichum gossypii cont.*
inoculation 571
seeds 571, 5517
*Colletotrichum gossypii* var. *cephalosporioides*
inoculation 571
pathogenicity 5516
seeds 570-571, 7072
varietal reactions 5516, 7072
*Coprinus cinereus*
environmental factors 7896
New South Wales 7896
cotton leaf crumple virus, genetics 566
damping off, reviews 2355
diseases
bolls 2360
books 3109
control 3110
Egypt 3946
integrated control 223, 3946
lint 2361
reviews 2355, 2358-2361
Shanxi 6280
USSR 1137
disorders, books 3109
*Fusarium*
China 8738
control 5517
pathogenicity 3955, 8738
seeds 3955, 5517
*Fusarium oxysporum*, biological control 2484
*Fusarium oxysporum* f.sp. *lycopersici*, biological control 3480
*Fusarium oxysporum* f.sp. *vasinfectum*
Alabama 1135, 3116
Angola 7076
herbicides 1677
inoculation 5518
isolates 7076
Nematoda 3950, 7891, 8741
pathogenesis-related proteins 8737
planting date 8741
remote sensing 3949
resistance 8737
reviews 1674, 1676, 2357
Tanzania 7891
varietal reactions 1135, 3116, 3950, 8741
*Gibberella fujikuroi*, physiology 3115
*Gliocladium virens*, inoculum 3113
*Glomerella cingulata*
detection 7894
quarantine 7894
seeds 7894
Tamil Nadu 8739
varietal reactions 8739
*Macrophomina phaseolina*, control 7890
mineral deficiencies, reviews 2365
mycoplasma-like organisms, reviews 2353
*Myrothecium roridum*
control 4779
hosts 4778
plant extracts, antifungal properties 3952
*Pythium*
control 1133
seeds 1133
USA 1133
*Pythium ultimum*
biological control 569, 5515
USA 5515
*Ramularia gossypii*, varietal reactions 3111
*Rhizoctonia*
Jiangsu 8248
pathogenicity 8248
*Rhizoctonia solani*
biological control 569, 1968, 3114, 5515
control 1133-1134, 3112, 5517
Egypt 3112
Georgia 3112
herbicides 3112
planting date 3112
seeds 1133-1134, 5517
USA 1133, 5515
*Rhizopus stolonifer*
environmental factors 6278
honeydew 6278
**Cotton** *cont.*
seedborne organisms, seed germination 1672
soil fungi
cultural methods 7075
rotations 7075
*Stemphylium*, toxins 3954
*Stemphylium macrosporioideum*
Azerbaijan 2362
Kazakhstan 2362
Ukraine 2362
Uzbekistan 2362
*Thielaviopsis basicola*
biological control 2484
control 1133-1134
cover crops 7074
edaphic factors 2354
seeds 1133-1134
USA 1133
*Ulocladium*, toxins 3954
*Verticillium albo-atrum*
induced resistance 6277
Iran 1675
phytoalexins 6277
varietal reactions 1675
*Verticillium dahliae*
breeding 3948, 3951
control 1136
fertilizers 1671
histopathology 7895
induced resistance 3948, 7073
inoculum density 3117
models 3117
oxalates 8740
phytoalexins 8740
plant age 7897
remote sensing 572, 3949
resistance 6279, 7897-7898
reviews 1674, 2356
rotations 3945
selection 6279
toxins 3953, 7892, 8742
Uzbekistan 3945, 6279
varietal reactions 568
vitamins 7897-7898
yield losses 3117
viruses, reviews 2353
*Xanthomonas campestris* pv. *malvacearum*
breeding 4780
control 1138, 3110
exopolysaccharides 4781
fertilizers 3118
genetic transformation 2364
host parasite relationships 3956-3957, 4782
India 7899
irrigation 3118
isolates 1139
molecular genetics 4782
New South Wales 3118
phytoalexins 3957-3958
reviews 1674, 2363
screening 1139
sowing date 7899
strains 3956
symptoms 3956
varietal reactions 3119, 4781
virulence 2364
yield losses 3119
**Cotton leaf crumple virus,** cotton, genetics 566
**Courgettes** (*see* Marrows)
**Cowpea aphid-borne mosaic potyvirus**
cowpeas
developing countries 382
seeds 382
serology 4500
serology 191
taxonomy 191
**Cowpea chlorotic mottle bromovirus**
*Clitoria ternatea*
characteristics 2587
Nigeria 2587
*Desmodium heterocarpon*
characteristics 2587
Nigeria 2587
molecular genetics
movement proteins 210
nucleotide sequences 8217
soyabeans, genetics 353

**Cowpea mild mottle carlavirus**
cowpeas
developing countries 382
seeds 382
**Cowpea mosaic comovirus**
cowpeas
developing countries 382
molecular genetics 7623
movement proteins 8468
seeds 381-382
immunology, proteins 3430
molecular genetics, gene expression 5063
soyabeans, mixed infections 2102
structure 7406
**Cowpea severe mosaic comovirus**
cowpeas
developing countries 382
seeds 382
immunology, proteins 3430
soyabeans, characteristics 2780
**Cowpeas** (*Vigna unguiculata*)
*Aspergillus parasiticus*
lipids 4271
seeds 4271
toxins 4271
bean common mosaic potyvirus, seeds 381
blackeye cowpea mosaic potyvirus
control 8467
serology 4500
transmission 8467
Yugoslavia 6027
*Cladosporium vignae*
taxonomy 769
USA 769
*Colletotrichum capsici*, control 2147
*Colletotrichum lindemuthianum*
testing 967
varietal reactions 967
*Colletotrichum truncatum*
testing 967
varietal reactions 967
*Corynespora cassiicola*, Trinidad and Tobago 4266
cowpea aphid-borne mosaic potyvirus, serology 4500
cowpea mosaic comovirus
molecular genetics 7623
movement proteins 8468
seeds 381
cucumber mosaic cucumovirus
control 8467
transmission 8467
*Curtobacterium flaccumfaciens* pv. *flaccumfaciens*
seeds 2817
Venezuela 2817
*Erysiphe polygoni*
integrated pest management 2145
yield losses 2145
fungicides, residues 6025
*Fusarium oxysporum*, biological control 7624
*Fusarium solani*
control 3709
environmental factors 3709
*Glomus etunicatum*, mycorrhizas, Nematoda 8136
*Glomus fasciculatum*, mycorrhizas, Nematoda 8136
*Glomus intraradices*
mycorrhizas
stomata 3351
water stress 3351
*Glomus pallidum*
mycorrhizas
growth 8135
Jamaica 8135
nodulation 8139
*Macrophomina phaseolina*
inoculation 2814
physiology 7628
mycorrhizas
phosphorus 6500
plant development 98
varietal reactions 6500
*Phytophthora vignae*, screening 6802
*Rhizoctonia solani*
biological control 7624
Nematoda 4503
root exudates 8469
**Cowpeas** *cont.*
*Rhizoctonia solani cont.*
varietal reactions 8469
*Sclerocystis microcarpa*
mycorrhizas
growth 8135
Jamaica 8135
seedborne viruses, developing countries 382
*Uromyces appendiculatus*
China 351
host parasite relationships 384
integrated pest management 2145
varietal reactions 351
yield losses 2145
viruses, Africa 4501
*Xanthomonas campestris*
Japan 939
strains 939
Thailand 939
*Xanthomonas campestris* pv. *phaseoli*
seeds 2817
Venezuela 2817
*Xanthomonas campestris* pv. *vignicola*
control 7630
seed testing 3710
seeds 2817
Venezuela 2817
***Crambe abyssinica, Xanthomonas campestris***, Missouri 7848
**Cranberries** (*see Vaccinium*)
***Crataegus douglasii, Cytospora***, Oregon 8768
***Crataegus monogyna, Erwinia amylovora***, biological control 610, 4859
***Crataegus pinnatifida***, diseases, Shandong 5547
***Crepis echiodes***
*Spiroplasma citri*
Turkey 5111
vectors 5111
***Crepis japonica, Bremia ovata***, Himachal Pradesh 3392
***Crescentia cujete***, plant extracts, antifungal agents 2733
**Cress** (*Lepidium sativum*)
*Pythium ultimum*, biological control 3469
***Crinipellis perniciosa***
cocoa
biological control 7051
Brazil 550
Colombia 4737, 4742-4750
control 550, 1126, 4741, 4747-4748, 4751
diagnosis 4749
epidemiology 4737, 4748
infection 4738
inoculation 4738
inoculum 4745
isolates 4740
rain 4742
research 4737, 4750
Rondônia 4751, 7051
spore dispersal 4743-4744
sporulation 4742
symptoms 1126, 4749
testing 4739
variation 4740
yield losses 4746
***Cristulariella moricola***
grapes, Georgia 8635
pecans, Georgia 8635
**Croatia**
apples, bitter pit 6929
cereals, barley yellow dwarf luteovirus 3494
forests, decline 7087
wheat, diseases 3513
***Cronartium***
*Pinus hwangshanensis*, alternative hosts 6315
*Pinus massoniana*, alternative hosts 6315
***Cronartium coleosporioides, Pinus***, Canada 2393
***Cronartium comandrae***
*Comandra umbellata*
alternative hosts 8794
Wyoming 8794
*Pinus*, Canada 2393
*Pinus contorta*
alternative hosts 8794
***Cronartium comandrae*** *cont.*
*Pinus contorta cont.*
forecasting 8794
growth 8795
Montana 8795
survival 8795
Wyoming 8794-8795
***Cronartium comptoniae, Pinus***, Canada 2393
***Cronartium flaccidum***
*Pinus nigra*, infection 4841
*Pinus pinaster*, infection 4841
*Pinus sylvestris*
Kazakhstan 4828
varietal reactions 4828
***Cronartium fusiforme***
*Pinus*
genetic polymorphism 6310
varietal reactions 3153
*Pinus elliottii*
enzymes 3150
Florida 6305
Georgia 4835, 6305
host parasite relationships 3150
selection 4835, 6304
soil types 7116
*Pinus taeda*
Florida 6305
Georgia 6305, 7115
host parasite relationships 6308
selection 6304
sewage 4836
site preparation 7115
varietal reactions 7933
yield losses 4830
spore germination, environmental factors 4180
***Cronartium ribicola***
*Pinus griffithii*, genetics 3987
*Pinus lambertiana*
California 8789
control 7112
genetics 8789
Oregon 8789
*Pinus peuce*, genetics 3149
*Pinus strobus*, genetics 3149, 3987
**Crooknecks** (*see Cucurbita maxima; Cucurbita pepo*)
**Crop losses**
*Amaranthus* 5976
asparagus 8522
bananas 6976
barley 2031-2032, 2699, 3586, 5890, 6684, 7492, 8260
*Capsicum* 1025
cardamoms 4010
cereals 2627
cherries 3842
chickpeas 2806
cocoa 2342, 4746
*Colocasia esculenta* 1532, 6835
cotton 573, 3117, 3119
cowpeas 2145
*Eleusine coracana* 7520
faba beans 2111, 8431
globe artichokes 6085
grapes 4653
groundnuts 529, 1102, 8680
linseed 5464
*Lolium* 342
loquats 6935
lucerne 347, 1471, 7576
maize 1414, 2057, 4390
marrows 453
*Medicago murex* 925
*Medicago polymorpha* 925, 1476
melons 1033
oats 8336
onions 2863, 3746
peas 8459
*Phaseolus vulgaris* 3683, 6008, 8437
*Pinus taeda* 4830
potatoes 400, 972, 1513, 2843, 3724, 4528, 5283, 6042
radishes 1534, 4539
rape 1090, 2296, 6236
rice 1450, 1458, 2746, 4436, 5966, 6730, 6737, 7524, 7552, 8387-8388
sorghum 3623
soyabeans 2784, 3677, 4468, 5995
strawberries 3851

**Crop losses** *cont.*
sugarbeet 6262-6263
sugarcane 1641, 3077, 5482
sunflowers 3047
sweet potatoes 4533
terminology 4049
tobacco 4753, 7878
tomatoes 4575, 6093, 6110, 8546
*Trifolium pratense* 3669
*Trifolium repens* 348
*Trifolium subterraneum* 925, 4458
wheat 261, 263, 834, 1392, 1399, 1402, 1405, 2012, 2652, 2677, 4326, 5874, 7452, 7454, 8260
yams 4534
**Crop protection** (*see* Plant protection)
**Cropping systems**
activity
*Alternaria macrospora*, cotton 7893
barley, diseases 3498, 6631
cereals, diseases 5846, 7440
*Corticium rolfsii*, groundnuts 3903
cotton, soil fungi 7075
crops, diseases 4294
faba beans, diseases 1489, 5239
flax, diseases 5239
*Fusarium*, sesame 7843
*Fusarium oxysporum* f.sp. *sesami* 2327
*Fusarium solani*, maize 4392
*Fusarium udum*, pigeon peas 8465
*Gaeumannomyces graminis* 2643
wheat 7450
*Gaeumannomyces graminis* var. *tritici*, wheat 5159
*Gibberella avenacea*, wheat 7450
*Gibberella fujikuroi*, maize 2062
groundnuts, diseases 7830
*Leptosphaeria nodorum*, wheat 269
maize, diseases 5239
maize rayado fino marafivirus, maize 1977
mycoplasma-like organisms, maize 1977
*Mycosphaerella graminicola*, wheat 269
onions, diseases 5239
peas
diseases 5239
root rots 6793
*Phaseolus vulgaris*, diseases 5239, 8443
*Phytophthora, Capsicum* 2202
*Phytophthora fragariae* var. *rubi*, raspberries 7762
plant diseases 7353
potatoes, diseases 3713
*Pseudocercosporella herpotrichoides* 2643
*Pyricularia oryzae*, rice 4416
*Pythium*
rape 1360
squashes 1360
rape, diseases 7816
*Rhizoctonia solani*
rape 1360
rice 4416, 5225
squashes 1360
wheat 7450
*Rhodococcus fascians, Lilium* 621
sorghum, mycorrhizas 716
soyabeans, mycorrhizas 716
*Spiroplasma*, maize 1977
*Thielaviopsis basicola*, cotton 7074
*Verticillium dahliae*
potatoes 3726-3727
soil 3727
wheat
diseases 3498, 3508, 6631, 8283
mycorrhizas 1854
control
cereals, diseases 245
*Diaporthe woodii*, lupins 3673
maize, diseases 4384, 5916
*Plasmodiophora brassicae, Brassica* 4556
*Rhizomonas suberifaciens*, lettuces 4565
soil, diseases 5916
*Verticillium dahliae*, cotton 3945

**Crops**
*Botrytis*, control 5830
*Botrytis cinerea*
biological control 5828
control 3484, 7256
*Colletotrichum*
biological control 6618
reviews 6615, 6618
cucumber mosaic cucumovirus
induced resistance 2610
Italy 2610
population dynamics 2610
strains 2610
diseases
agroforestry 6598
Bangladesh 6437
biological control 229, 666, 3482-3483
breeding 4272-4274, 6390, 8183, 8238
Canada 5118
China 6598
computer software 5793
control 218, 1369, 1794, 1960, 2599, 3460-3461, 5793, 6437, 6440-6441, 7180, 7421, 8084, 8099-8100
cropping systems 4294
Europe 8239
evolution 3463, 5115
expert systems 135
Finland 135
forecasting 133, 3417, 8189
gene banks 4272
genetic engineering 143, 2559
genetics 4275, 5115, 6390, 8243
Germany 218, 7431
India 7419
Indian Punjab 8249
integrated control 4909, 5837-5838, 7419, 7431
integrated pest management 6598, 7420
Italy 1794
models 135, 7431
Moldova 1976
molecular genetics 2605-2606
Nepal 217
Netherlands 5793
Nigeria 1960, 2601
Poland 220
remote sensing 7424
resistance 2605-2606
reviews 217
Romania 2599, 3460-3461
seed treatment 6424
soil bacteria 1959
Sweden 5838, 8240
tissue culture 647
UK 133, 6424
USSR 2598
weather 8240
weather forecasting 8239
West Bengal 5113
fungi
control 3317
genetic transformation 1963, 5116
resistance 1963, 5116
fungicides
models 6443
spraying 6443
*Fusarium*, Turkey 760
geminiviruses, detection 5810
*Glomerella cingulata*
epidemiology 6617
reviews 6617
Tropics 6617
*Helicobasidium purpureum*, Europe 2611
mycoplasma-like organisms
detection 1348
transmission 1348
mycorrhizas
fungicides 5728
growth 4171
Honshu 7296
inoculation 90
reviews 2511, 6467, 6606
soil bacteria 1959, 5728
Zaire 4171
pesticide residues 51
analysis 1225

**Crops** *cont.*
pesticides, degradation 4110
*Phytophthora*
identification 810
Turkey 810
powdery mildews, induced resistance 6610
*Rhizoctonia*, anastomosis groups 3382
*Rhizoctonia cerealis*, Europe 2611
*Rhizoctonia solani*
anastomosis groups 1300
China 1300
Europe 2611
*Sclerotinia sclerotiorum*, control 3484
viruses
breeding 1965
conferences 3216
control 3216
elimination 8180-8181
genetic engineering 1965, 3427
reviews 1964
Honshu 1933
induced resistance, reviews 2571
research 2561
resistance 3427
reviews 1964, 8198
Venezuela 2561
*Xylella fastidiosa*, reviews 1595
***Crotalaria juncea***
*Colletotrichum curvatum*
genotypes 8744
West Bengal 8744
***Crotalaria saltiana***
phyllody
mycoplasma-like organisms 4471
proteins 4471
Sudan 4471
***Croton***, diseases, antagonists 4868
***Croton sublyratus***
bacteria
control 7147
Thailand 7147
*Fusarium*
control 7147
Thailand 7147
***Croton tiglium***
*Colletotrichum dematium*
control 8822
Madhya Pradesh 8822
**Crown gall** (*see Agrobacterium tumefaciens*)
**Cruciferae**
fungi, pollen 4892
*Leptosphaeria maculans*, reviews 6080
phytoalexins, analysis 4551
*Plasmodiophora brassicae*
Finland 6077
races 6077
*Pseudomonas*, Zhejiang 1542
*Pseudomonas syringae* pv. *maculicola*, characteristics 6088
*Pseudomonas syringae* pv. *tomato*, characteristics 6088
*Xanthomonas campestris* pv. *campestris*
reviews 6082
Zhejiang 1542
***Crumenulopsis atropurpurea***
*Pinus densiflora*
Georgia 1711
taxonomy 1711
***Crumenulopsis sororia***
*Pinus sylvestris*
evolution 1712
host parasite relationships 1712
***Cryphonectria cubensis***
*Eucalyptus*
isolation 3136
Kerala 3966
*Eucalyptus grandis*, susceptibility 4798
*Myrtaceae*
pathogenicity 1085
South Africa 1085
soil, isolation 3136
***Cryphonectria gyrosa***, *Eucalyptus*, Kerala 3966
***Cryphonectria parasitica***
*Castanea dentata*
breeding 8779
hypovirulence 7013
chestnuts
biological control 3887, 8664
breeding 2290

***Cryphonectria parasitica*** *cont.*
chestnuts *cont.*
China 2292
Connecticut 7810
control 3040, 6228
Czechoslovakia 1695
genetic engineering 3040
host parasite relationships 650
hypovirulence 1622, 3040, 3887, 6226, 6228, 8664
Italy 4795, 6227-6228
population genetics 2292
protoplasts 4695
reviews 3887
Switzerland 1620, 6223
USA 2290, 2292, 3040
varietal reactions 7810
vegetative compatibility groups 6227
Virginia 8782
virulence 3041
viruses 6226
forest trees, Italy 4795
mating systems 8666
molecular genetics
enzymes 515, 8665
gene transfer 6225
genetic transformation 106
hypovirulence 106, 515
mitochondrial DNA 7811
nucleotide sequences 8665
virulence 5461
*Quercus*, Czechoslovakia 1695
vegetative compatibility groups, ultraviolet radiation 2291
viruses
gene expression 1621
hypovirulence 1621
***Cryptococcus fagisuga***, epidemiology, *Nectria coccinea*, *Fagus sylvatica* 8773
***Cryptodiaporthe populea***
*Populus*
antagonists 7099
plant extracts 3139
***Cryptosporiopsis***, *Chamaecyparis obtusa*, Japan 4851
***Cryptosporiopsis abietina***
*Sequoia sempervirens*
endophytes 7107
USA 7107
***Cryptostegia grandiflora***
*Marvalia cryptostegia*
biological control 6367
Queensland 6367
**Cuba**
bananas
*Mycosphaerella fijiensis* var. *difformis* 1077
*Mycosphaerella musicola* 3008, 3868
citrus, *Sphaerotheca tumefaciens* 4668
*Colocasia esculenta*, dasheen mosaic potyvirus 2820
fungi, taxonomy 3391
grapefruits, tumours 496
groundnuts, *Ascochyta* 6251
*Phaseolus vulgaris*, bean common mosaic potyvirus 6008
*Pinus*, fungi 7936
*Pinus caribaea*
*Ceratocystiopsis minima* 7935
*Ceratocystis seticollis* 7935
*Pinus cubensis*, *Mycosphaerella dearnessii* 7934
potatoes, *Alternaria solani* 2846-2847
soyabeans
*Cercospora kikuchii* 5241
seedborne organisms 7586
sugarcane
*Bipolaris sacchari* 4722
diseases 2329
sunflowers
*Colletotrichum helianthi* 7818
*Euoidium* 4705
tobacco
*Peronospora tabacina* 3106
*Phytophthora nicotianae* var. *nicotianae* 3107
*Xanthomonas campestris* 4774
*Xanthosoma sagittifolium*, dasheen mosaic potyvirus 2820
**Cucumber green mottle mosaic tobamovirus**
cucumbers
Latvia 6132
mixed infections 8588
pathogenesis-related proteins 1028
*Lagenaria siceraria*
characteristics 1029
Saudi Arabia 1029
**Cucumber mosaic cucumovirus**
bananas, Taiwan 3003
Beijing 8548
California, strains 2592
*Capsicum*
control 6119
genetic transformation 6118
histopathology 3782
plant extracts 6119
screening 6880, 8573
symptoms 5343
varietal reactions 6879, 8576
*Chenopodium amaranticolor*, control 5466
chickpeas, Spain 4490
*Coleus*, Louisiana 4875
cowpeas
control 8467
developing countries 382
seeds 382
transmission 8467
crops
induced resistance 2610
Italy 2610
population dynamics 2610
strains 2610
cucumbers
genetic transformation 2913, 5360
genetics 4595
India 4595
Latvia 6132
mixed infections 8588
resistance 2913
symptoms 5363
*Cucurbita pepo*, transmission 4593
Cucurbitaceae
France 6889
immunodiagnosis 5362
seeds 5362
*Dahlia*
France 3189
Zhejiang 1732
*Gladiolus*
characteristics 5582
hosts 5582
grain legumes, New Zealand 8423
horticultural crops, Spain 2618
immunology, immune serum 173
isolates, differentiation 807
kenaf, China 4785
Leguminosae
host range 1335
strains 1335
symptoms 1335
Taiwan 2776
lupins
detection 7584
seeds 7584
marrows
coat proteins 1030
detection 1030
strains 5359
varietal reactions 5359
*Medicago murex*, yield losses 925
*Medicago polymorpha*, yield losses 925
melons
coat proteins 2912
genetic engineering 2912
Mexico 6890
molecular genetics
coat proteins 7882
DNA 3454
isolates 5060
nucleotide sequences 6091
restriction fragment length polymorphism 5060
RNA 5050
satellite RNA 5055, 6091
transmission 5050
*Musa*, gene banks 4659
*Nicotiana bigelovii*
genetics 5812
**Cucumber mosaic cucumovirus** *cont.*
*Nicotiana bigelovii cont.*
satellite RNA 5812
symptoms 5812
*Nicotiana clevelandii*
genetics 5812
satellite RNA 5812
symptoms 5812
*Nicotiana glutinosa*, herbicides 3940
*Paulownia tomentosa*, Italy 3169
*Phaseolus vulgaris*
India 5256
Spain 2790
*Physalis ixocarpa*, Louisiana 8604
*Pimpinella monoica*
characteristics 1754
Delhi 1754
*Piper methysticum*
Fiji 5601
Tonga 5601
plants, histopathology 1324
preservation 8201
*Primula palinuri*
characteristics 3180
Italy 3180
pumpkins, Uttar Pradesh 6130
safflower, control 5466
squashes
control 3787
enzymes 1967
fertilizers 3787
varietal reactions 3787
*Stachytarpheta indica*, Kerala 7989
sugarbeet, Greece 4728
tobacco
coat proteins 1129, 8728
control 3095
detection 4239
genetic transformation 1669, 3104, 5502, 7413, 7882
genetics 5812
herbicides 3940
induced resistance 3104, 5502
interactions 8206
Jilin 3095
models 8716
molecular genetics 4761
resistance 1669, 7882
satellite RNA 5812
symptoms 1129, 4761, 5812, 8728
Taiwan 5492
varietal reactions 8716
yield losses 4753
tomatoes
genetic transformation 2186
induced resistance 2888, 5325, 6091
Japan 6091
mixed infections 2889
satellite RNA 2186, 2888, 5324, 5326, 6091
symptoms 5324, 5326
*Trifolium subterraneum*
Australia 2095
yield losses 925
vegetables, Shandong 3466
water, Czechoslovakia 5049
weeds
induced resistance 2610
Italy 2610
population dynamics 2610
Spain 2618
strains 2610
**Cucumber necrosis necrovirus**
molecular genetics
nucleotide sequences 8232
RNA 8232
**Cucumbers** (*Cucumis sativus*)
*Botrytis cinerea*
antagonists 5829
biological control 6135
control 4604, 5827, 6134-6135, 6446, 6451
Czechoslovakia 6134
epidemiology 5827
integrated control 5833
*Cladosporium cucumerinum*
control 6134
Czechoslovakia 6134
*Colletotrichum orbiculare*, induced resistance 1026
*Corticium rolfsii*, biological control 8167

**Cucumbers** *cont.*
*Corynespora cassiicola*, Trinidad and Tobago 4266
cucumber green mottle mosaic tobamovirus, pathogenesis-related proteins 1028
cucumber mosaic cucumovirus
genetic transformation 2913, 5360
genetics 4595
India 4595
resistance 2913
symptoms 5363
damping off, biological control 228
*Didymella bryoniae*
control 4604, 6134
Czechoslovakia 6134
testing 7710
diseases
biological control 2917, 6544, 6607
control 2207, 2212, 5350, 8241
integrated control 1359
Italy 1359
North Carolina 2206
resistance 5842
Russia 2212, 6607
Wisconsin 2207
*Erwinia herbicola*, ice nucleation 2921
*Erysiphe cichoracearum*
control 6604
epidemiology 2919
Italy 2919
Shangdong 6904
varietal reactions 6904
fungicide residues, determination 72, 4953
fungicides, activity 7673
*Fusarium*
control 7715
Jilin 7715
screening 7716
*Fusarium oxysporum*
China 8595
races 8595
Zhejiang 6136
*Fusarium oxysporum* f.sp. *cucumerinum*
survival 1034
symptoms 2213
toxins 2213
*Fusarium oxysporum* f.sp. *niveum*
Shangdong 6904
varietal reactions 6904
*Glomus*, mycorrhizas, diseases 450
*Glomus fasciculatum*, mycorrhizas, soil bacteria 5733
manganese, toxicity 2925
*Monosporascus cannonballus*, pathogenicity 8602
*Penicillium oxalicum*
fungicide tolerance 2215
Ontario 2215
*Phomopsis sclerotioides*, control 7429
*Phytophthora capsici*, Guangdong 2211
*Phytophthora drechsleri*
control 7720
Guangdong 2211
Iran 7720
*Phytophthora melonis*
postharvest decay 6895-6896
Shangdong 6904
varietal reactions 6904
powdery mildew
genetics 6892
resistance 6892
prune dwarf ilarvirus, transmission 1027
prunus necrotic ringspot ilarvirus
detection 1583
transmission 1027
*Pseudomonas syringae*, ice nucleation 2921
*Pseudomonas syringae* pv. *lachrymans*
bacteriophages 2922
control 6137
environmental factors 454
Japan 454, 2922
serology 2922
varietal reactions 6137
*Pseudomonas syringae* pv. *syringae*
induced resistance 3812
salicylic acid 3812
*Pseudoperonospora cubensis*
control 1036, 3763, 3801-3804

**Cucumbers** *cont.*
*Pseudoperonospora cubensis cont.*
culture 451
forecasting 1563
fungicide tolerance 3805, 5377
Germany 134
Honshu 5377
models 134
resistance 6893
Shangdong 6904
Ukraine 1563
varietal reactions 3798, 3802, 6904
*Pythium*
biological control 449, 2216
control 2210, 2880
cultural methods 6902
environmental factors 1303
rockwool 6902
soilless culture 2880
*Pythium aphanidermatum*
biological control 4606, 5371
control 5372
irrigation 5372
pathogenicity 7724
postharvest decay 5371
transmission 8598
*Pythium ultimum*
biological control 450, 4603
control 1032
host parasite relationships 4605
hydroponics 1032
mycorrhizas 450
resistance 6898
silicon 4605, 6898
*Rhizoctonia solani*
biological control 1565, 2216, 3796
pathogenicity 7724
sulfur dioxide 5834
varietal reactions 7709
*Sclerotinia sclerotiorum*
biological control 6901
control 448, 4604, 6134
Czechoslovakia 6134
seedborne fungi, Orissa 2918
*Sphaerotheca fuliginea*
chlorophyll 8596
control 4604, 6900
epidemiology 2919
genetics 5370
host parasite relationships 2915, 8596
Italy 2919
Netherlands 5370
plant extracts 7432
silicon 2915, 2925
susceptibility 4601
storage decay, Jammu and Kashmir 8597
tobacco mosaic tobamovirus, mixed infections 8588
tobacco necrosis necrovirus
enzymes 2914
host parasite relationships 2914
viruses, Latvia 6132
zucchini yellow mosaic potyvirus
Singapore 443
symptoms 5363
***Cucumis melo*** (*see* Melons)
***Cucumis metulifera***
papaya ringspot potyvirus
detection 1031
proteins 1031
serology 1031
***Cucumis prophetarum***, lettuce infectious yellows virus, varietal reactions 5352
***Cucumis sativus*** (*see* Cucumbers)
**Cucurbit aphid-borne yellows virus**
Cucurbitaceae
characteristics 2209
France 2209, 6889
***Cucurbita***
*Fusarium oxysporum*, symptoms 7718
*Fusarium oxysporum* f.sp. *lagenariae*, pathogenicity 8600
***Cucurbita ficifolia***
*Fusarium oxysporum* f.sp. *lagenariae*, symptoms 7718
*Fusarium oxysporum* f.sp. *melonis*, symptoms 7718
***Cucurbita maxima*** (*see also* marrows, pumpkins and squashes)
*Fusarium oxysporum* f.sp. *lagenariae*, symptoms 7718

***Cucurbita maxima*** *cont.*
papaya ringspot (type W) potyvirus, varietal reactions 5358
watermelon mosaic 2 potyvirus, varietal reactions 5358
zucchini yellow mosaic potyvirus, varietal reactions 5358
***Cucurbita pepo*** (*see also* marrows, pumpkins and squashes)
cucumber mosaic cucumovirus, transmission 4593
zucchini yellow mosaic potyvirus, transmission 8586
**Cucurbitaceae**
bacteria, Italy 3486
*Cladosporium cucumerinum*, taxonomy 1037
*Colletotrichum magna*
pathogenicity 446
screening 446
cucumber mosaic cucumovirus
immunodiagnosis 5362
seeds 5362
cucurbit aphid-borne yellows virus
characteristics 2209
France 2209
diseases, books 3784
*Erysiphe cichoracearum*
hosts 1564
India 1564
*Fusarium oxysporum*
formae speciales 3797
molecular genetics 3797
*Fusarium solani*, antagonists 3809
manganese, toxicity, Florida 4278
*Phytophthora drechsleri*, reservoir hosts 1562
*Pseudoperonospora cubensis*
control 4602
ecology 4602
symptoms 7719
Taiwan 4602
*Sphaerotheca fuliginea*
control 4601
ecology 4601
Spain 4600
Taiwan 4601
viruses
China 1974
Malaysia 1974
watermelon mosaic 2 potyvirus, induced resistance 8589
**Cultural methods**
activity
*Aspergillus*
groundnuts 7836
soil 7836
cabbages
internal rot 4557
tipburn 4557
*Capsicum*, viruses 1974
carrots, seedborne fungi 2852
*Cercospora zeae-maydis*, maize 2715
*Cochliobolus sativus*, barley 3586
*Corticium rolfsii*, groundnuts 1100
cotton, soil fungi 7075
*Cronartium fusiforme*, *Pinus taeda* 7115
*Erysiphe graminis*, wheat 1388
*Festuca rubra*, diseases 1468
flax, diseases 3472
forest trees, diseases 7085
*Gaeumannomyces graminis* 2643
cereals 5849
wheat 3510
*Gaeumannomyces graminis* var. *tritici*, wheat 5880
grapes
diseases 6955
viruses 6176
*Hevea*, mycorrhizas 5701
kiwifruits, bacteria 6972
*Lanzia*, *Festuca arundinacea* 932
*Moellerodiscus*, *Festuca arundinacea* 932
pears, diseases 7743
peas, diseases 3472
*Peronospora manshurica*, soyabeans 6766
*Phaeoisariopsis griseola*, *Phaseolus vulgaris* 3685

**Cultural methods** *cont.*
activity *cont.*
*Phytophthora nicotianae* var. *parasitica*
soil 7682
tomatoes 7682
*Poa pratensis*, diseases 1468
potatoes, fungi 6813
*Pseudocercosporella herpotrichoides* 2643
wheat 3510
*Pyrenochaeta lycopersici*
soil 7682
tomatoes 7682
*Pyrenophora tritici-repentis*, wheat 2680
*Pythium*
cucumbers 6902
wheat 7479
*Pythium myriotylum*, groundnuts 1100
*Rhizoctonia oryzae*, barley 290
*Rhizoctonia solani*
barley 290
rice 5965
wheat 7480
*Sclerotinia sclerotiorum*
peas 8250
potatoes 8250
rape 8250
*Setosphaeria turcica*, maize 1424
soil, fungi 6813, 7355
sugarbeet, diseases 534, 2334
*Uromyces appendiculatus, Phaseolus vulgaris* 2123
wheat, diseases 1986, 3472, 6638
*Xanthomonas campestris* pv. *malvacearum*, cotton 3118
control
*Alternaria alternata, Phaseolus vulgaris* 7610
*Alternaria porri*, onions 4541
barely yellow dwarf luteovirus, barley 4355
biological control agents 5644
*Botrytis cinerea*
grapes 2993
tomatoes 2197, 6870
*Crinipellis perniciosa*, cocoa 4741, 4751
*Eutypa lata*, grapes 4652
*Fusarium oxysporum* f.sp. *asparagi*, asparagus 8526
*Gibberella fujikuroi*, asparagus 8526
grapefruits, tumours 496
groundnuts, diseases 5470
*Heterosporium echinulatum*, carnations 3183
*Magnaporthe grisea*, rice 4440
maize, diseases 4384
*Oncobasidium theobromae*, cocoa 555
*Phomopsis*, asparagus 7671
*Pseudomonas solanacearum*, tomatoes 4587
*Rhizoctonia solani*
barley 5901
rice 6739
rice, diseases 5202
*Sclerospora graminicola*, millets 5935
**Culture collection catalogues,** wood destroying fungi, Czechoslovakia 1902
***Cuminum cyminum***
*Aspergillus flavus*
control 5594
toxins 5594
plant extracts, antifungal agents 3910
plant oils, antifungal agents 8119
***Cunninghamella echinulata,*** laboratory tests, heavy metals 1871
***Cunninghamella elegans***
biochemistry, siderophores 3357
tomatoes
roots 8560
ultrastructure 8560
***Cunninghamia lanceolata***
*Appendiculella cunninghamiae*
China 5781
taxonomy 5781
***Cupressus***
diseases
Mediterranean countries 4849
reviews 4849
***Cupressus*** *cont.*
*Seiridium cardinale*, Italy 3985, 7955
*Seiridium cupressi*, toxins 1173
***Cupressus arizonica***
detergents
damage 3167
Italy 3167
***Cupressus glabra***
*Seiridium cardinale*
monoterpenes 4850
resistance 4850
***Cupressus macrocarpa***
detergents
damage 3167
Italy 3167
***Cupressus sempervirens***
detergents
damage 3167
Italy 3167
*Seiridium cardinale*
Europe 7946
Italy 1721
monoterpenes 4850
resistance 4850
selection 1721
**Cupric hydroxide,** control, *Taphrina deformans*, nectarines 469
**Cuprous oxide,** control, *Crinipellis perniciosa*, cocoa 4751
**Curaterr** (*see* Carbofuran)
***Curcuma longa*** (*see* Turmeric)
***Curtobacterium flaccumfaciens* pv. *flaccumfaciens***
cowpeas
seeds 2817
Venezuela 2817
*Vigna radiata*
detection 7625
seeds 7625
***Curvularia***
*Coriandrum sativum*, varietal reactions 4884
fodder crops
Egypt 6628
toxins 6629
*Hevea brasiliensis*, Sri Lanka 578
*Pennisetum americanum*
Georgia 4407
seeds 4407
toxins 4407
rice
control 2735
Honshu 5210
soil, Bangladesh 119
sorghum, seeds 8358
toxins 6537
***Curvularia affinis,*** mulberries, West Bengal 479
***Curvularia trifolii***
*Trifolium repens*
assessment 7582
epidemiology 4457
North Carolina 2096, 7582
***Cuscuta arvensis*** (*see Cuscuta campestris)*
***Cuscuta campestris***
mycoplasma-like organisms, detection 2596
transmission, mycoplasma-like organisms 3855
***Cuscuta europaea,*** transmission, arabis mosaic nepovirus 7983
***Cuscuta suaveolens,*** transmission, arabis mosaic nepovirus 7983
**Cushaws** (*see Cucurbita)*
***Cussonia thyrsiflora,*** *Mycosphaerella cussonia*, South Africa 7359
**Cutinase**
activity
*Aspergillus oryzae* 2109
*Rhizopus stolonifer* 2109
***Cyamopsis tetragonoloba*** (*see* Guar)
***Cycas revoluta***
*Gibberella fujikuroi*, Uttar Pradesh 609
*Gibberella fujikuroi* var. *intermedium*, Uttar Pradesh 609
***Cyclamen persicum***
*Alternaria alternata*
Poland 6347
seeds 6347
*Penicillium*
Poland 6347
***Cyclamen persicum*** *cont.*
*Penicillium cont.*
seeds 6347
*Phoma exigua*
Poland 6347
seeds 6347
***Cyclaneusma minus, Pinus radiata,*** Spain 596
***Cydonia oblonga*** (*see* Quinces)
***Cydonia vulgaris*** (*see* Quinces)
***Cylindrocarpon***
Coniferae
Nematoda 8786
Ontario 8786
***Cylindrocarpon candidum, Quercus,*** Italy 4802
***Cylindrocarpon destructans***
*Picea abies*
mycorrhizal fungi 1166
soil pH 7945
***Cylindrocarpon heteronema,*** apples, detection 4616
***Cylindrocarpon lichenicola***
laboratory tests, plant extracts 3286
yams, India 3741
***Cylindrocarpon lucidum, Eucalyptus,*** Kerala 3966
***Cylindrocladiella***
forest trees
nuseries 1147
reviews 1147
South Africa 1147
forests, South Africa 4792
taxonomy, reviews 5048
***Cylindrocladiella camelliae,*** forests, South Africa 4792
***Cylindrocladiella parva***
forests, South Africa 4792
IMI descriptions 7357
***Cylindrocladium***
bananas, Martinique 6198
forest trees
nuseries 1147
reviews 1147
South Africa 1147
***Cylindrocladium candelabrum,*** taxonomy, teleomorphs 6570
***Cylindrocladium citri,*** IMI descriptions 7357
***Cylindrocladium clavatum***
*Eucalyptus*
Kerala 4797
pathogenicity 1698
screening 1698
susceptibility 4797
forests, South Africa 4792
***Cylindrocladium colhounii***
*Annona cherimola*, control 5456
*Annona squamosa*, control 5456
forests, South Africa 4792
***Cylindrocladium crotalariae,*** taxonomy 7385
***Cylindrocladium floridanum, Eucalyptus,*** Kerala 3966
***Cylindrocladium hawksworthii,*** IMI descriptions 7357
***Cylindrocladium heptaseptatum,*** IMI descriptions 7357
***Cylindrocladium parasiticum,*** taxonomy, new species 7385
***Cylindrocladium reteaudii,*** taxonomy, descriptions 5043
***Cylindrocladium scoparium***
*Erica gracilis*
irrigation water 3174
spread 3174
*Eucalyptus*
pathogenicity 1698
screening 1698
forests, South Africa 4792
*Rhododendron*, South Africa 1723
soyabeans, Colombia 5998
taxonomy, teleomorphs 6570
*Trifolium pratense*, control 8420
***Cylindrocladium spathiphylli***
*Spathiphyllum*
Florida 1740
Hawaii 1740
morphology 1740
***Cymadothea,*** potatoes, Chile 2831
***Cymadothea trifolii***
*Trifolium repens*
infection 4459

***Cymadothea trifolii*** *cont.*
*Trifolium repens cont.*
North Carolina 2096
***Cymbidium,*** odontoglossum ringspot tobamovirus, elimination 7971
**Cymbidium mosaic potexvirus**
*Dendrobium*, elimination 622
*Mokara*, elimination 8817
molecular genetics
coat proteins 2573
detection 4246
Orchidaceae, Hawaii 7142
tobacco
genetic transformation 2573
induced resistance 2573
*Vanilla*, Pacific Islands 4011
**Cymbidium ringspot tombusvirus**
*Nicotiana benthamiana*
coat proteins 1666
genetic transformation 4241
host parasite relationships 1666
movement 1666
*Nicotiana clevelandii*
coat proteins 1666
host parasite relationships 1666
movement 1666
***Cymbopogon winterianus,*** *Pythium aphanidermatum*, India 1183
**Cymoxanil**
activity, *Botrytis cinerea* 4950
control
*Peronospora humuli*, hops 2419
*Phytophthora infestans*, potatoes 3718
metabolism, tomatoes 6102
uptake, tomatoes 6102
***Cynara scolymus*** (*see* Globe artichokes)
***Cynodon dactylon***
*Claviceps purpurea*
Oklahoma 929
toxins 929
diseases
mowing 1729
mulching 1729
*Gaeumannomyces graminis*, detection 4283
*Gaeumannomyces graminis* var. *graminis*, identification 5982
*Leptosphaeria korrae*
nitrogen 1725
potassium 1725
mycoplasma-like organisms
serology 5836
Thailand 5836
*Ophiosphaerella herpotricha*, identification 3999
**Cyperaceae**
*Kriegeria eriophori*
life cycle 1758
taxonomy 1758
***Cyperus esculentus***
*Puccinia canaliculata*
biological control 4893, 5617, 7997
Maryland 4893
***Cyperus pangore,*** *Cintractia limitata*, India 3401
***Cyperus rotundus,*** *Puccinia canaliculata*, biological control 5617
**Cypresses** (*see Cupressus*)
***Cypripedium candidum***
mycorrhizas
Ohio 1277
roots 1277
**Cyproconazole**
absorption, sorghum 8092
control
*Akaropeltopsis*, avocados 2280
*Corticium rolfsii*, groundnuts 3072
*Erysiphe graminis*, barley 1407
*Fusarium*, wheat 3512
*Mycosphaerella berkeleyi*, groundnuts 3072, 7031
*Populus*, diseases 7089
*Pseudocercospora purpurea*, avocados 2280
*Pseudocercosporella herpotrichoides*, wheat 3512
*Rhizoctonia solani*
groundnuts 3072
wheat 3512
*Rhynchosporium secalis*, barley 5899
*Salix*, diseases 7089
**Cyproconazole** *cont.*
control *cont.*
*Sclerotium cepivorum*, onions 2176
wheat, diseases 3515
fungicide tolerance, *Pseudocercosporella herpotrichoides* 8317
**Cyprus,** watermelons, *Fusarium oxysporum* f.sp. *niveum* 5369
**Cytokinins**
activity
*Botrytis allii* 5306
*Colletotrichum dematium* 5306
***Cytospora***
*Alnus incana*, Oregon 8768
*Cornus stolonifera*, Oregon 8768
*Crataegus douglasii*, Oregon 8768
*Populus tremuloides*, Mexico 7100
shade trees, control 3129
***Cytospora carposperma,*** pears, control 467
***Cytosporella***
forest trees
Chile 7085
cultural methods 7085
**Czech Republic**
*Alliaria petiolata*, turnip yellow mosaic tymovirus 7985
forests, decline 4803
hops
diseases 3203
*Pseudoperonospora humuli* 4888
*Quercus petraea*, decline 4803
*Quercus robur*, decline 4803
sugarbeet
beet necrotic yellow vein furovirus 2333
*Polymyxa betae* 2333
sunflowers, potato Y potyvirus 7817
water, tomato bushy stunt tombusvirus 3450
**Czechoslovakia**
apricots, diseases 2229
barley
*Erysiphe graminis* 4366
*Fusarium* 1374
*Fusarium culmorum* 1374
*Penicillium aurantiogriseum* 1374
*Puccinia hordei* 3496
*Pyrenophora teres* 868
chestnuts, *Cryphonectria parasitica* 1695
cucumbers
*Botrytis cinerea* 6134
*Cladosporium cucumerinum* 6134
*Didymella bryoniae* 6134
*Sclerotinia sclerotiorum* 6134
Erysiphales 3393
forest trees, viruses 1694
grapes, diseases 3857
hops, *Peronospora* 4889
marrows, zucchini yellow mosaic potyvirus 3790
*Papaver somniferum*, turnip mosaic potyvirus 1743
*Picea abies*, *Heterobasidion annosum* 4827
*Pinus sylvestris*, *Heterobasidion annosum* 4827
*Platanus acerifolia*, *Melanospora* 7104
potatoes, *Streptomyces scabies* 986
*Quercus*, *Cryphonectria parasitica* 1695
rape, beet western yellows luteovirus 4727
*Senecio integrifolius*, tomato black ring nepovirus 1755
*Senecio nemorensis* subsp. *fuchsii*, tomato black ring nepovirus 1755
sugarbeet
beet necrotic yellow vein furovirus 538
beet western yellows luteovirus 4727
viruses 4725
*Trifolium repens*, clover yellow vein potyvirus 935
water
cucumber mosaic cucumovirus 5049
viruses 5049
weeds, beet western yellows luteovirus 4727
wheat
diseases 836, 8277
*Erysiphe graminis* 2670, 2672, 3496
*Fusarium* 1374
**Czechoslovakia** *cont.*
wheat *cont.*
*Fusarium culmorum* 1374
*Gaeumannomyces graminis* 1399
*Penicillium aurantiogriseum* 1374
*Pseudocercosporella herpotrichoides* 3550
*Puccinia graminis* 3496
*Puccinia recondita* 3496
*Puccinia striiformis* 3496
wood destroying fungi, culture collection catalogues 1902
**2,4-D,** activity, *Pyrenophora graminea*, barley 5897
***Dactuliophora tarrii,*** *Vigna umbellata*, Sikkim 8470
***Dactylaria leptosphaeriicola,*** taxonomy, new species 7380
***Dactylis glomerata***
*Acremonium coenophialum*
control 2761
France 2761
*Rhynchosporium orthosporum*, Guizhou 7568
*Stagonospora arenaria*
breeding 2757
genetics 2757
***Dactylorhiza incarnata***
*Rhizoctonia*
host parasite relationships 1278
mycorrhizas, nitrogen 1278
nitrogen 1278
***Dactylorhiza majalis***
*Tulasnella calospora*
mycorrhizas
environmental factors 1276
seed germination 1276
**Daffodils** (*see Narcissus*)
***Dahlia***
cucumber mosaic cucumovirus, Zhejiang 1732
viruses, France 3189
**Dahlia mosaic caulimovirus,** *Dahlia*, France 3189
***Dalbergia sissoo***
*Glomerella cingulata*, seeds 1159
*Maravalia achroa*
Nepal 5545
screening 5545
*Myrothecium roridum*
Haryana 4813
Uttar Pradesh 4813
*Phoma nivea*, Uttar Pradesh 4813
seedborne fungi, seed germination 3975
*Trametes cubensis*, physiology 8762
*Uredo sissoo*
Nepal 5545
screening 5545
***Dalbulus maidis***
transmission
maize rayado fino marafivirus 1977, 7497
mycoplasma-like organisms 1977
*Spiroplasma* 1977
**Damping off**
*Abies pindrow* 2399
asparagus 431, 1544
*Capsicum* 8583
cardamoms 8825
*Celosia argentea* 8583
cotton 2355
cucumbers 228, 2216
*Euphorbia esula* 8860
lettuces 228
maize 2068
peas 228, 1831
*Picea jezoensis* 6319
*Pinus* 601
rough lemons 4670
sugarbeet 1121
***Daphne cneorum,*** daphne X potexvirus, immunodiagnosis 3994
**Daphne X potexvirus,** *Daphne cneorum*, immunodiagnosis 3994
***Darkera parca***
*Picea abies*
leaf fall 7119
Sweden 7119
**Dasheen mosaic potyvirus**
*Colocasia esculenta*, Cuba 2820

**Dasheen mosaic potyvirus** *cont.*
molecular genetics, nucleotide sequences 4245
*Xanthosoma sagittifolium*, Cuba 2820
**Databases**
pesticides 8056
safety 3265-3266
plant protection 3221
**Dates** (*Phoenix dactylifera*)
*Alternaria alternata*, biochemistry 7004
*Aspergillus japonicus*, biochemistry 7004
*Botryodiplodia theobromae*
Nematoda 8658
Rajasthan 8658
*Fusarium oxysporum* f.sp. *albedinis*
edaphic factors 4687
enzymes 5453
Morocco 4687
varietal reactions 5453
*Nigrospora*, biochemistry 7004
*Podosordaria ingii*
Canary Islands 2287
taxonomy 2287
***Datura***
potato X potexvirus
host parasite relationships 1323
leaf age 1323
***Datura metel***
plant extracts, antifungal agents 5694
potato Y potyvirus, reservoir hosts 4024
**Datura shoestring potyvirus,** laboratory tests, plant extracts 7394
***Datura stramonium***
*Alternaria alternata*, toxins 7999
*Alternaria crassa*, biological control 1760, 3208
*Fusarium oxysporum*
Mississippi 4897
toxins 4897
*Fusarium pallidoroseum*, Mississippi 4897
*Gibberella fujikuroi*
biological control 1762
Mississippi 4897
toxins 4897
***Daucus carota*** (*see* Carrots)
***Davisomycella asiatica,*** IMI descriptions 3394
***Davisomycella ponderosae,*** IMI descriptions 3394
**Dazomet**
activity
*Thielaviopsis basicola*
soil 6273
tobacco 6273
control
cherries, replant disease 5410
*Fusarium, Croton sublyratus* 7147
*Plasmodiophora brassicae*, cauliflowers 2868
*Rhizoctonia solani, Delphinium* 5578
*Tilletia indica*, spore germination 1396
**DCMO** (*see* Carboxin)
**DCNA** (*see* Dicloran)
***Delonix regia,*** air pollution, India 1160
***Delphacidae,*** transmission, plant pathogens 8237
***Delphinium***
bacteria
latent infections 7125
tissue culture 7125
*Rhizoctonia solani*
control 5578
Japan 5578
***Delphinium elatum, Corticium rolfsii***, Honshu 5577
**Deltamethrin**
activity
*Alternaria* 3290
*Aspergillus* 3290
*Penicillium* 3290
**Demethylation inhibitors**
fungicide tolerance 254
Europe 7253
***Dendranthema indicum*** (*see* Chrysanthemums)
***Dendranthema morifolium*** (*see* Chrysanthemums)
***Dendrobium***
*Botryodiplodia theobromae*, Assam 3400
***Dendrobium*** *cont.*
cymbidium mosaic potexvirus, elimination 622
odontoglossum ringspot tobamovirus, elimination 622
*Pseudocercospora dendrobii*
control 7143
Taiwan 7143
***Dendroctonus frontalis,*** transmission, *Ophiostoma minus* 6309
***Dendryphiella veriosa,*** Himachal Pradesh 7356
**Denmark** (*see also* Greenland)
barley
diseases 5844
*Erysiphe graminis* 4368
*Puccinia hordei* 5892
*Rhynchosporium secalis* 5899
cereals
diseases 239
*Pseudocercosporella herpotrichoides* 7446
fungicides, usage 7235-7236
horticultural crops, diseases 5839
peas, pea enation mosaic enamovirus 7612
pesticides
regulation 1236
usage 1236, 5685-5687
plant protection
computer techniques 5792
information 5795
*Poa pratensis*, diseases 2089
potatoes, potato Y potyvirus 7638
rape, diseases 7816
sugarbeet, *Ramularia beticola* 6265
wheat
diseases 5844, 5853, 7448
*Puccinia striiformis* 5864-5866
***Dermea pseudotsugae,*** Coniferae, Pennsylvania 6301
***Derris trifoliata, Cochliobolus lunatus***, West Bengal 8843
***Desmodium heterocarpon***
cowpea chlorotic mottle bromovirus
characteristics 2587
Nigeria 2587
***Desmodium obcordatum, Colletotrichum capsici***, Assam 3400
**Detergents,** damage, *Cupressus* 3167
**Deuteromycotina,** taxonomy, reviews 5790, 7369
***Deuterophoma tracheiphila***
citrus
control 4662
fungicide tolerance 4673
Italy 4673
toxins 6210
lemons
biochemistry 5122
*in vitro* selection 6991
physiology 5122
toxins 6991
varietal reactions 2263
oranges, varietal reactions 2263
**Developing countries**
cowpeas, seedborne viruses 382
pesticides
application 8048
legislation 59, 1822
regulation 7216
safety 1822
usage 7216
plant diseases
biological control 6595
diagnosis 8182
plant protection 6384
weeds, biological control 6595
wheat
bacteria 2025
diseases 1985-1986
***Diachora erebia,*** IMI descriptions 1903
***Dianthus caryophyllus*** (*see* Carnations)
***Diaphorina citri,*** transmission, citrus, greening 3019
***Diaporthe citri***
citrus, storage 4667
grapefruits, Texas 2266
oranges
control 7799
Mizoram 6208
***Diaporthe citri*** *cont.*
tangelos, control 7799
***Diaporthe helianthi***
sunflowers
control 1627
heterosis 2302
Moldova 2308
variation 2308
varietal reactions 2300
***Diaporthe lokoyae,*** Coniferae, Pennsylvania 6301
***Diaporthe phaseolorum***
*Capsicum*
Haryana 3783
seeds 3783
sunflowers
Hungary 2301
varietal reactions 2301
***Diaporthe phaseolorum* var. *caulivora***
soyabeans
epidemiology 2106
genetics 5992
irrigation 2106
mixed infections 3677
perithecia 7599
survival 7599
varietal reactions 2106
yield losses 3677
***Diaporthe phaseolorum* var. *sojae***
soyabeans
culture techniques 1486
physiology 7594
seeds 365
***Diaporthe woodii***
lupins
Belarus 3673
rotations 3673
***S,N*-diarylthiophosphoroamidates**
activity
*Pyricularia oryzae*, rice 7537
*Rhizoctonia solani*, rice 7537
***Diatrype carissae***
forest trees
isolates 3965
Maharashtra 3965
**Dibutyl phthalate,** control, *Pyricularia oryzae*, rice 3644
**Dicarboximide fungicides**
control, *Botrytis cinerea*, strawberries 6173
fungicide tolerance
*Botrytis cinerea* 688, 3376, 5757, 7250
*Botrytis elliptica* 688
*Botrytis tulipae* 688
*Monilinia fructicola* 3835
**Dichlofluanid**
activity
*Botrytis allii* 3297
*Botrytis cinerea* 3297
*Pesalotiopsis funerea* 8793
phyllosphere microorganisms 6434
control
*Botrytis cinerea*
crops 5833
greenhouse crops 5831
roses 2407, 5832
*Ruscus hypoglossum* 3995
strawberries 5420
tomatoes 5832
*Didymella lycopersici*, tomatoes 7684
fungicide residues
grapes 7257
honey 5420
pollen 5420
soil 7257
fungicide tolerance, *Botrytis cinerea* 5831-5832, 6531
**Dichlopentazol,** seed treatment, wheat 2668
**1,3-Dichloropropene**
fungicide residues, air 4102
soil treatment 5507
***Dichomera saubinetii, Quercus robur***, insects 7092
**Diclobutrazol**
distribution, wheat 6640
fungicide residues, groundwater 2471
**Diclone,** control, *Taphrina deformans*, nectarines 1060

**Dicloran**
activity, *Rhizopus stolonifer*, peaches 5413
control, sugarbeet, storage decay 7861
**Dictionaries**
plant pathology 1199
plant protection 1197
***Dicyma pulvinata***
hyperparasitism
*Fulvia fulva* 5339
*Mycosphaerella berkeleyi* 1638
***Didymella*,** air spora, Germany 3356
***Didymella bryoniae***
cucumbers
control 4604, 6134
Czechoslovakia 6134
testing 7710
melons
hosts 8594
Xinjiang 8594
pumpkins, breeding 7714
watermelons, seeds 1567
***Didymella lycopersici***
*Capsicum*
Haryana 3783
seeds 3783
tomatoes
control 4584, 7684
Morocco 4584
symptoms 6856
***Didymosphaeria arachidicola***
groundnuts
characteristics 8684
Korea Republic 8683
varietal reactions 8683
***Didymostilbe***
maize
control 5916
Mexico 5916
soil
control 5916
Mexico 5916
***Dieffenbachia***
tomato spotted wilt tospovirus
Poland 5075
serology 5075
transmission 5075
**Diethofencarb**
activity, *Neurospora crassa* 3294
control
*Botrytis cinerea* 7256
crops 5833
cucumbers 6135
grapes 2994
*Ruscus hypoglossum* 3995
strawberries 7774
onions, storage decay 2860
*Sclerotium cepivorum*, garlic 3747
degradation, soil 3312
fungicide tolerance
*Botrytis cinerea* 2994, 3299, 6190, 6525
*Neurospora crassa* 6444
seed treatment, *Phaseolus* 6783
**Difenoconazole**
control
*Alternaria dauci*, carrots 7631
*Alternaria macrospora*, cotton 1673
*Alternaria solani*
potatoes 7631
tomatoes 7631
*Cercospora beticola*, sugarbeet 8713
*Cercospora carotae*, carrots 7631
*Podosphaera leucotricha*, apples 5390
*Sphaerotheca mors-uvae*, black currants 5390
**Difluoromethylornithine**
control
*Botrytis cinerea*, crops 3484
*Botrytis fabae*, faba beans 8256
*Erysiphe graminis*, barley 3576, 8256
*Puccinia graminis*, wheat 3522
*Puccinia hordei*, barley 8256
*Sclerotinia sclerotiorum*, crops 3484
*Uromyces viciae-fabae*, faba beans 8256
***Digitaria***
*Streptomyces*
biological control 8000
toxins 8000
***Digitaria microbachne***
*Claviceps amamiensis*
Japan 2758
taxonomy 2758
***Digitaria sanguinalis*,** rice black-streaked dwarf fijivirus, Korea Republic 901
**Digitaria striate mosaic virus,** Gramineae, Australia 927
**Dimethomorph**
activity, *Phytophthora infestans* 7252
control
*Peronospora destructor*, onions 6073
*Phytophthora infestans*, potatoes 1511
development 7242
***Dimocarpus longan***
seedborne fungi
control 5431
storage 5431
***Dingleya*,** taxonomy 706
**Diniconazole**
activity
*Aspergillus*
groundnuts 7836
soil 7836
control
*Cochliobolus sativus*, wheat 2646, 4310
*Corticium rolfsii*, groundnuts 1102
*Fusarium*, wheat 4310
*Phomopsis amygdali*, peaches 4631
*Puccinia striiformis*, wheat 4331
*Pyrenophora graminea*, barley 2041
*Pyricularia*, wheat 2646
*Rhizoctonia solani*, barley 5901
*Tilletia indica*, wheat 4335
*Ustilago segetum* var. *tritici*, wheat 2010
fungicide residues, wheat 4335
**Dinocap**
activity, peaches, phylloplane fungi 2242
control
*Erysiphe cruciferarum*, Indian mustard 3756
*Oidium erysiphoides*, *Ziziphus mauritiana* 4685
peas, diseases 2129
*Podosphaera leucotricha*, apples 8609
fungicide residues
apples 7246
grapes 7246
pears 7246
***Dioon edule***
*Glomus*
mycorrhizas
growth 4987
Mexico 4987
***Dioscorea*** (*see* Yams)
***Diospyros kaki*** (*see* Persimmons)
***Diospyros melanoxylon*,** *Glomerella cingulata*, Madhya Pradesh 4824
**Diphenylamine**
control
apples, scald 3830, 4609, 6927
pears, scald 4609
**Diphenylphosphinic amides,** activity, *Pseudoperonospora cubensis* 6449
***Diplocarpon mali***
apples
Kyushu 1575
resistance 4614
***Diplocarpon mespili*,** IMI distribution maps 3389
***Diplocarpon rosae***
*Rosa damascena*, India 3401
roses
breeding 8807
morphology 4854
varietal reactions 3173, 4854
***Diplodia***
citrus, Indonesia 497
*Pinus*, control 3129
*Quercus*
pathogenicity 7913
Spain 7913
symptoms 7913
***Diplodia pinea***
forest trees, Slovenia 5529
IMI distribution maps 3389
*Pinus koraiensis*, Korea Republic 8759
*Pinus nigra*
France 7938
***Diplodia pinea*** *cont.*
*Pinus nigra cont.*
Netherlands 7113
nutrients 7113
*Pinus radiata*, Spain 596
taxonomy, conidia 7363
***Diplodia rosarum***
roses
control 4855
Uttar Pradesh 4855
***Diplodiella oospora*,** Ukraine 3395
***Diplodina eurhododendri*,** *Vaccinium*, Ukraine 2243
**Dipterocarpaceae,** plant extracts, antifungal properties 690
**Directories,** pesticides 1792, 4074, 4937, 7230
***Discosia aquatica*,** *Abutilon*, Madhya Pradesh 5779
***Discosia artocreas*,** taxonomy, morphology 1922
***Discosia faginea*,** taxonomy, morphology 1922
***Discosia grammita*,** *Paeonia suffruticosa*, taxonomy 6559
***Discosia pini*,** Coniferae, Pennsylvania 6301
***Discosia subramanianii***
*Ficus pumila*
India 1921
taxonomy 1921
***Discosia tillandsiae***
*Tillandsia*
Mexico 770
taxonomy 770
***Discosporium populeum*,** IMI distribution maps 3389
***Discula***
*Cornus*
control 1175, 3129, 7130
symptoms 7130
varietal reactions 1175
Washington 1175
***Discula destructiva***
*Cornus*, culture media 3983
*Cornus florida*
ecology 7105
environmental factors 588, 3146
infection 3146
North Carolina 588, 3146, 7105
plant density 588
**Disease surveys,** Canada 5118
**Disinfectants**
activity
*Clavibacter michiganensis* subsp. *sepedonicus* 4107, 6392
*Erwinia carotovora* subsp. *atroseptica* 6392
fungi 6425
*Phytophthora mexicana* 2548, 4107
*Xanthomonas campestris* pv. *pelargonii* 2548, 4107
control
*Phytophthora nicotianae* var. *parasitica*, *Saintpaulia ionantha* 3187
viruses, horticultural crops 789
**Dithane M-45** (*see* Mancozeb)
**Dithianon**
control
*Capsicum*, diseases 7701
*Nectria galligena*, apples 2958, 6148
*Pseudocercospora dendrobii*, *Dendrobium* 7143
*Taphrina deformans*, nectarines 1060
*Taphrina pruni*, plums 2975
*Uromyces appendiculatus*, *Phaseolus vulgaris* 1493
**Dithiocarbamate fungicides,** fungicide tolerance, *Aspergillus niger* 8690
**Dithiolanes**
activity
*Pseudoperonospora cubensis* 3292
*Pyricularia oryzae* 3292
***Ditylenchus dipsaci*,** interactions, *Fusarium oxysporum* f.sp. *medicaginis*, lucerne 5986
***Diuraphis noxia***
transmission
barley stripe mosaic hordeivirus 1372
barley yellow dwarf luteovirus 1372
brome mosaic bromovirus 1372

***Docynia indica***
*Aspergillus*
Jammu and Kashmir 6154
postharvest decay 6154
**Dodemorph,** fungicide residues, health hazards 6436
**Dodine**
activity, *Pseudomonas syringae* 1214
control
*Marssonina brunnea, Populus* 3138
*Nectria galligena,* apples 6148
*Taphrina deformans,* peaches 7760
***Dolichoderus thoracicus,*** interactions, *Phytophthora palmivora,* cocoa 4752
***Dolichos lablab*** *(see Lablab purpureus)*
***Doritaenopsis***
*Nectria haematococca*
Japan 8818
pathogenicity 8818
***Dothiorella dominicana,*** mangoes, South Africa 508
***Dothiorella gregaria***
*Populus*
control 8775
Liaoning 8775
**Douglas fir** *(see Pseudotsuga menziesii)*
**DPX 6375,** control, *Phytophthora palmivora,* cocoa 557
***Drechslera***
activity, *Sclerotinia sclerotiorum, Phaseolus vulgaris* 1494
biochemistry, anthraquinones 3379
linseed, seeds 6237
rice, control 2735
USSR 6549
***Drechslera cactivora,*** *Schlumbergera truncata,* varietal reactions 7974
***Drechslera dematioidea,*** *Pennisetum americanum,* genetic resources 2070
***Drechslera poae***
*Poa pratensis*
control 2089, 4450
Denmark 2089
varietal reactions 2089
***Drechslera wirreganensis***
barley
South Australia 293
taxonomy 293
***Drepanopeziza populorum***
*Populus nigra*
control 7089
France 7089
***Drepanopeziza punctiformis***
*Populus canadensis*
control 7089
France 7089
***Drepanosiphum platanoidis,*** transmission, potato Y potyvirus 1326
**Dunes**
*Acaulospora laevis,* mycorrhizas, Greece 1858
*Glomus macrocarpum,* mycorrhizas, Greece 1858
**Dutch elm disease** *(see Ceratocystis ulmi)*
***Dysmicoccus,*** transmission, pineapple wilt-associated virus 3026
***Earliella scabrosa,*** forest trees, Taiwan 2378
***Echinochloa colonum***
*Sarocladium oryzae*
Bihar 3652
survival 3652
***Echinochloa crus-galli***
*Aspergillus flavus,* aflatoxins 3630
flame chlorosis, Manitoba 6355
rice black-streaked dwarf fijivirus, hosts 901
wheat streak mosaic rymovirus
Kansas 5134
reservoir hosts 5134
***Echinochloa frumentacea***
rice black-streaked dwarf fijivirus, Korea Republic 901
seedborne fungi, control 2726
***Echinodorus osiris***
*Cercospora osirisae*
Florida 773
taxonomy 773
***Echium***
*Spiroplasma citri*
Turkey 5111
vectors 5111
**Economics of control**
*Alternaria alternata,* chickpeas 968
*Phaeoisariopsis griseola, Phaseolus vulgaris* 8445
*Poa pratensis,* diseases 2089
*Vigna mungo,* diseases 5281
**Ecuador,** oil palms, bud rot 7020
**Edifenphos**
activity
*Gibberella zeae* 4205
*Pyricularia oryzae* 8378
control
*Cochliobolus miyabeanus,* rice 4428
*Pyricularia oryzae,* rice 3644, 5219, 8378
fungicide tolerance, *Cochliobolus miyabeanus* 4430
**Eggplant mosaic tymovirus,** molecular genetics, cloning 7408
**Eggplants** *(see* Aubergines)
**Egypt**
apricots, viruses 2231
barley
barley stripe mosaic hordeivirus 2029
diseases 2026
*Pyrenophora graminea* 2041
cotton
diseases 3946
*Rhizoctonia solani* 3112
*Eichhornia crassipes, Alternaria alternata* 5614
fodder crops, diseases 6628
*Freesia refracta,* freesia leaf necrosis virus 7139
grapes
mycoplasma-like organisms 6957
tomato ringspot nepovirus 2247
groundnuts
*Gibberella fujikuroi* 7032
*Rhizoctonia solani* 7032
maize, seedborne fungi 6699
*Pennisetum americanum,* leaf spot 6627
rice, *Pyricularia oryzae* 4424
sorghum, leaf spot 6627
*Sorghum sudanense,* leaf spot 6627
wheat
*Gibberella zeae* 6639
*Puccinia graminis* 2652, 5139
seedborne fungi 5137, 6639
*Ustilago segetum* var. *tritici* 2010
**Egyptian clover** *(see Trifolium alexandrinum)*
***Eichhornia crassipes***
*Alternaria alternata*
biological control 5614
Egypt 5614
*Alternaria eichhorniae,* West Bengal 754
*Cochliobolus sativus,* Haryana 8859
diseases, Haryana 8859
fungi, Pakistan 8845
*Fusarium chlamydosporum,* Haryana 8859
***Elaeis guineensis*** *(see* Oil palms)
***Elaeis oleifera*** *(see* Oil palms)
***Elaeodendron glaucum***
*Stigmella tirumalensis*
India 7366
taxonomy 7366
***Elaphomyces,*** taxonomy, spores 6566
***Elasmopalpus lignosellus***
interactions
*Aspergillus flavus,* groundnuts 6246
*Aspergillus parasiticus,* groundnuts 6246
transmission, *Aspergillus flavus* 7028
**Elders** *(see Sambucus)*
**Electron microscopy**
*Alternaria alternata,* pears 8618
*Armillaria mellea* 5767
cowpea mosaic comovirus, insects 5063
cucumber mosaic cucumovirus, *Capsicum* 3782
*Erysiphe graminis,* barley 5178
*Eutypa lata,* grapes 486
*Gardenia jasminoides,* viruses 2402
*Glomus fuegianum* 4996
grapevine leafroll associated closterovirus, grapes 1071
*Gymnosporangium clavipes* 4187
*Gymnosporangium haraeanum* 5766
*Halophytophthora* 4227
**Electron microscopy** *cont.*
Humariaceae 2534
*Kriegeria eriophori,* Cyperaceae 1758
*Leptosphaerulina crassiasca,* groundnuts 7837
maize streak monogeminivirus
Gramineae 3487
sugarcane 3487
*Microdochium bolleyi,* barley 4371
mycoplasma-like organisms 2565
*Ammobium alatum* 4861
*Catharanthus roseus* 4264
*Lagenaria siceraria* 5361
*Physostegia virginiana* 4264
mycorrhizal fungi 6488
*Ophiostoma piceae* 4228
*Phialocephala dimorphospora* 1923
*Phytophthora* 4227
*Phytophthora infestans,* potatoes 4521
*Polymyxa graminis* 5902
poplar mosaic carlavirus, *Populus* 7096
Protozoa, apricots 4621
*Puccinia polypogonis, Polypogon monspeliensis* 2093
*Pythium* 4227
ribgrass mosaic tobamovirus, tomatoes 1549
rice dwarf phytoreovirus, rice 1449
rice transitory yellowing nucleorhabdovirus, rice 1449
*Sclerotium cepivorum* 2862
*Spongospora subterranea,* potatoes 5297
*Sporendonema purpurascens,* mushrooms 1185
strawberries, June yellows 1062
tobacco mosaic tobamovirus
*Capsicum* 3782
tomatoes 7676
tomato yellow leaf curl bigeminivirus, tomatoes 7675
turnip yellow mosaic tymovirus 5057
*Uromyces viciae-fabae* 5009
*Ustilago segetum* var. *avenae* 737
*Ustilago zeae* 737
*Verticillium dahliae,* cotton 7895
viruses 2565
*Xanthomonas campestris* pv. *vesicatoria, Capsicum* 6888
***Eleocharis kuroguwai,*** fungi, biological control 7990, 8853
***Eleocharis tuberosa,*** *Fusarium oxysporum* f.sp. *eleocharidis,* control 1533
***Elettaria cardamomum*** *(see* Cardamoms)
***Eleusine coracana***
*Cochliobolus pallescens*
reservoir hosts 1765
Uttar Pradesh 1765
*Magnaporthe grisea*
Karnataka 7520
molecular genetics 3626
strains 3626
yield losses 7520
mycorrhizas
genotypes 4994
growth 4994
*Pyricularia setariae,* varietal reactions 5934
rice black-streaked dwarf fijivirus, hosts 901
seedborne fungi
Madhya Pradesh 2727
varietal reactions 2727
***Eleusine indica***
*Magnaporthe grisea*
host parasite relationships 909
molecular genetics 3626
strains 3626
***Ellopia fasciaria,*** interactions, *Sydowia polyspora, Pinus* 1713
**Elms** *(see Ulmus)*
***Elsinoë ampelina***
*Brevibacterium,* antagonism 815
grapes
Australia 482
China 2252
control 482, 1073, 8634
Indian Punjab 8634
Maharashtra 2996
screening 2252
Tamil Nadu 1073
varietal reactions 2996

***Elsinoë ampelina*** *cont.*
*Vitis*
China 2252
screening 2252
***Elsinoë australis,*** citrus, sporulation 6996
***Elsinoë batatas,*** sweet potatoes, control 7657
***Elsinoë fawcettii***
citrus
environmental factors 6994
Republic of Georgia 6994
sporulation 6996
culture media
growth 4671-4672
sporulation 4671-4672
***Elymus elongatus,*** wheat streak mosaic rymovirus, molecular genetics 5854
***Elymus repens***
*Glomus mosseae*
mycorrhizas
nutrients 4170
water 4170
*Pseudocercosporella herpotrichoides,* pathotypes 823
***Elymus villosus,*** *Acremonium coenophialum,* host range 6753
***Elymus virginicus,*** *Acremonium coenophialum,* host range 6753
***Elytrigia*** *(see Elymus)*
***Elytrigia pontica*** *(see Elymus elongatus)*
***Elytrigia repens*** *(see Elymus repens)*
***Embellisia allii,*** IMI distribution maps 3389
***Emericella nidulans*** **var.** ***lata,*** fenugreek, nucleosides 7148
**Emisan** (*see* 2-methoxyethylmercury chloride)
***Empoasca decedens,*** transmission, mycoplasma-like organisms 7754
**Endives** (*Cichorium endivia*)
tobacco streak ilarvirus
Florida 421
immunodiagnosis 421
***Endoconospora indica***
*Leucaena latisiliqua*
Tamil Nadu 7375
taxonomy 7375
***Endocronartium harknessii***
*Pinus,* Canada 2393
*Pinus banksiana,* inoculation 6311
*Pinus contorta*
Alberta 8785
breeding 7114
resistance 8785
symptoms 7114
*Pinus ponderosa,* resistance 598
*Pinus radiata*
California 7937
street trees 7937
*Pinus sylvestris,* screening 597
***Endocronartium pini***
*Pinus sylvestris*
Kazakhstan 4828
varietal reactions 4828
**Endogonaceae,** taxonomy 3346
**Endogonales**
nomenclature 3347
taxonomy, reviews 4151
***Endogone alba,*** taxonomy 7381
***Endogone flammicorona,*** Italy 3346
**Endosulfan,** control, *Macadamia,* decline 7813
***Endothia gyrosa,*** *Eucalyptus,* South Africa 8771
**Engelmann spruce** (*see Picea engelmannii*)
***Enterobacter***
activity, *Botrytis cinerea,* grapes 6187
coconuts, Jamaica 5468
control
*Pyricularia oryzae,* rice 5953
*Rhizoctonia solani,* rice 5953
***Enterobacter aerogenes***
control
apples, replant disease 460
*Phytophthora cactorum,* apples 6922
***Enterobacter agglomerans,*** activity, *Gibberella fujikuroi,* maize 1420
***Enterobacter cloacae,*** antagonism, *Xanthomonas oryzae* pv. *oryzae* 1790
***Entomosporium mespili***
*Photinia fraseri*
control 3996
Georgia 3996
***Entomosporium mespili*** *cont.*
*Photinia glabra,* phytoalexins 8809
*Rhaphiolepsis umbellata,* phytoalexins 7129
***Entrophospora colombiana,*** spore germination, taxonomy 727
***Entyloma australe***
*Physalis ixocarpa*
control 6909
Mexico 6908-6909
***Entyloma compositarum,*** weeds, biological control 7168
***Ephelis,*** *Eulaliopsis binata,* Henan 4783
***Epichloë,*** Gramineae, molecular genetics 8411
***Epicoccum nigrum***
activity, *Sclerotinia sclerotiorum, Phaseolus vulgaris* 1494
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
antagonism, *Monilinia laxa* 3847
chicory, symptoms 7672
citrus, enzymes 4675
control, *Monilinia laxa,* peaches 5415
laboratory tests, plant extracts 1833
lentils, Hungary 3699
maize, Germany 880
mushrooms
contaminants 8835
spawn 8835
rice, endophytes 3640
wheat
enzymes 4312
seeds 4312
***Epilobium angustifolium*** *(see Chamerion angustifolium)*
***Epimedium,*** viruses, Maryland 5557
**Epiphytic bacteria**
activity
*Leucostoma cinctum,* apricots 2971
*Pseudomonas syringae* pv. *syringae,* apricots 2971
**Epirus cherry virus,** cherries, characteristics 2976
***Epitrix cucumeris,*** transmission, physalis mottle virus 8604
***Equisetum***
mycorrhizas
Norway 6499
USA 6499
***Equisetum arvense,*** *Poitrasia circinans,* Madhya Pradesh 5779
***Eragrostis curvula,*** *Magnaporthe grisea,* host parasite relationships 909
***Erica gracilis***
*Cylindrocladium scoparium*
irrigation water 3174
spread 3174
*Phytophthora cinnamomi*
irrigation water 3174
spread 3174
**Ericaceae**
fruit rot
New Jersey 7986
susceptibility 7986
*Hymenoscyphus ericae,* mycorrhizas, enzymes 1280
mycorrhizas, staining 1867
plant extracts, antifungal agents 1759
***Eriobotrya japonica*** *(see* Loquats)
***Eriochloa contracta***
wheat streak mosaic rymovirus
Kansas 5134
reservoir hosts 5134
***Eriosporella calami,*** bamboos, Philippines 4890
***Erwinia***
*Alnus cordata*
Italy 6299
symptoms 6299
*Alnus glutinosa*
Italy 6299
symptoms 6299
aubergines, mixed infections 2167
crops, control 1962
*Festuca arundinacea*
detection 341
seeds 341
identification 6393, 7183
***Erwinia*** *cont.*
laboratory tests
antibiotics 4055
fungicides 4055
maize, Venezuela 2722
potatoes
control 6059
environmental factors 7652
gypsum 7651
Poland 6061
storage 5283, 6061
tissue culture 6031
Tunisia 7652
UK 6031
varietal reactions 6061, 7651-7652
sorghum, Venezuela 2722
***Erwinia amylovora***
apples
antibiotics 7, 2933
biological control 1041, 1049, 7741
control 8613-8614
environmental factors 7742
epiphytes 1049
forecasting 1572, 7740
France 3828
host parasite relationships 4058, 8615
Michigan 7, 1048
models 8614
New York 2933
Pennsylvania 8613-8614
reviews 6913
transmission 7740
varietal reactions 1048, 3827
vectors 7729
biochemistry
enzymes 1786
polysaccharides 1786
*Crataegus monogyna,* biological control 610, 4859
fruit trees, Sweden 1351
Haiti 4919
molecular genetics
elicitors 5651
nucleotide sequences 1202, 1209
pathogenicity 657, 1202, 7192
RNA probes 8027
virulence 6400
pears
antibiotics 2933
biological control 1041, 3832
forecasting 1572
host parasite relationships 1053
molecular genetics 1053
New York 2933
New Zealand 7743
reviews 6913
selection 5400
spread 1582
Turkey 457, 1582
varietal reactions 457
vectors 7729
Yugoslavia 2934
plants, control 7195
polysaccharides, reviews 3226
pome fruits
conferences 458
forecasting 2935
Germany 458
quarantine, detection 7266
quinces
Turkey 457
varietal reactions 457
Yugoslavia 2934
tobacco, host parasite relationships 4058
***Erwinia cacticida***
Cactaceae
pathogenicity 8
taxonomy 8
***Erwinia carotovora***
*Capsicum*
Costa Rica 442
insects 442
storage 8578
temperature 8578
laboratory tests, plant extracts 6602
molecular genetics
enzymes 7193
gene expression 8031
nucleotide sequences 3229, 7193, 8031

***Erwinia carotovora*** *cont.*
ornamental plants
latent infections 7125
tissue culture 7125
pathogenicity, protein secretion 6391
potatoes
environmental factors 2849
gene expression 1517
host parasite relationships 1517
radicals 5298
resistance 5298
storage 2849
***Erwinia carotovora*** **subsp.** ***atroseptica***
cabbages
biochemistry 1541
diagnosis 1541
carrots, testing 8498
Chinese cabbages
dew 1002
rain 1002
detection 4056
identification 4056
laboratory tests, disinfectants 6392
potatoes
biological control 407
breeding 1520
China 6060
control 6062
fertilizers 1518
Haryana 3732
immunodiagnosis 1519
nitrogen 2848
Poland 6061
resistance 6060
storage 1518, 6061
Switzerland 6826
UK 407
Ukraine 1516
varietal reactions 3732, 6061
***Erwinia carotovora*** **subsp.** ***carotovora***
*Allium tuberosum*, Japan 6841
biochemistry
differentiation 6399
fatty acids 6399
carrots, testing 8498
Chinese cabbages
dew 1002
rain 1002
soil amendments 1535
greenhouse crops
host range 6398
hydroponics 6398
horticultural crops, Italy 3486
laboratory tests, hydantoins 3289
molecular genetics
DNA 4923
enzymes 658, 4923
gene expression 6402
genetic transformation 4920
nucleotide sequences 5652, 6402
virulence 658
monitoring 659
potatoes
antagonists 2822
China 6060
control 6604
detection 408
fertilizers 1503
Haryana 3732
nitrogen 2848
Poland 6061
resistance 3733, 6060
storage 1503, 6061
Ukraine 1516
varietal reactions 3732, 6061
*Pseudomonas*, antagonism 5230
*Pseudomonas glumae*, antagonism 6407
rice, biological control 6742
*Schlumbergera truncata*, varietal reactions 7974
soil, detection 1210
survival 659
tobacco
enzymes 4775
host parasite relationships 4775
tomatoes, North Carolina 5341
***Erwinia carotovora*** **subsp.** ***odorifera***, chicory, taxonomy 3761
***Erwinia chrysanthemi***
biochemistry
differentiation 6399
***Erwinia chrysanthemi*** *cont.*
biochemistry *cont.*
enzymes 4921
fatty acids 6399
*Capsicum*
Costa Rica 442
insects 442
cardamoms, Papua New Guinea 1746
carnations, host parasite relationships 2411
chicory
enzymes 4292
pathogenicity 4292
detection 4056
identification 4056
laboratory tests, plant extracts 6602
maize, enzymes 4401
molecular genetics
enzymes 655, 2445, 3238, 4922, 6401
gene expression 1212, 3239, 4059, 4921, 8032
iron 1179
nucleotide sequences 660-661, 2445, 3238, 3240, 4922, 6401, 8032
pathogenicity 655, 1179
pathogenicity, protein secretion 6391
peas
enzymes 4292
pathogenicity 4292
physiology
enzymes 7194
proteins 1211
potatoes
detection 4530
enzymes 4292
pathogenicity 4292
Switzerland 6826
*Saintpaulia ionantha*
enzymes 4292
pathogenicity 4292
sorghum
symptoms 5933
Uttar Pradesh 5933
sweet potatoes, mixed infections 8501
***Erwinia chrysanthemi*** **pv.** ***zeae***, maize, Hokkaido 6705
***Erwinia herbicola***
antagonism, *Sclerotinia sclerotiorum* 2791
apples
environmental factors 7742
host parasite relationships 8615
control 5644
*Erwinia amylovora*
apples 1041, 7741
*Crataegus monogyna* 610
pears 1041
*Monographella nivalis*, wheat 8280
*Pythium ultimum*, wheat 8280
cucumbers, ice nucleation 2921
ice nucleation 5645
environmental factors 3227
molecular genetics, enzymes 6403
onions, Barbados 4550
production, antifungal agents 1785
rice
seeds 8371
toxins 8371
taxonomy, phenotypes 4918
***Erwinia stewartii***
maize
detection 5196
seeds 5196
molecular genetics, pathogenicity 7192
polysaccharides, reviews 3226
**Erysiphaceae,** Spain, biogeography 2551
**Erysiphales**
Czechoslovakia 3393
Germany 6556
Spain 2549, 6548
taxonomy 6556
Ukraine 3396
***Erysiphe***
*Euphorbia esula*, Nei Menggu 5611
*Mentha arvensis*, Argentina 7157
peas, breeding 4485
rape
France 4700
varietal reactions 4700
taxonomy, numerical taxonomy 1914
tomatoes, symptoms 6856
***Erysiphe artemisiae,*** *Artemisia dracunculus*, Iran 1748
***Erysiphe betae***
sugarbeet
control 1122, 3086, 3918, 4730
France 1122
Poland 4730
UK 3918
Ukraine 8704
varietal reactions 4730, 8704
***Erysiphe cichoracearum***
cucumbers
control 6604
epidemiology 2919
Italy 2919
Shangdong 6904
varietal reactions 6904
Cucurbitaceae
hosts 1564
India 1564
*Eucalyptus camaldulensis*, Arizona 1152
*Eucalyptus cladocalyx*, Arizona 1152
*Eucalyptus leucoxylon*, Arizona 1152
*Eucalyptus polyanthemos*, Arizona 1152
*Eucalyptus viminalis*, Arizona 1152
Jerusalem artichokes
Georgia 5302
screening 5302
marrows
epidemiology 2919
Italy 2919
melons, genetics 6133
sesame, breeding 6254
*Solanum carolinense*, Georgia 4027
squashes, enzymes 1967
tobacco
breeding 7052
control 5506
Taiwan 5492
varietal reactions 7064
***Erysiphe cichoracearum*** **var.** ***fischeri***
*Senecio vulgaris*
host parasite relationships 8854-8856
UK 8854-8855
virulence 8854
***Erysiphe cruciferarum***
Indian mustard
control 3756
Gujarat 3756
***Erysiphe graminis***
*Aegilops squarrosa*, varietal reactions 860
barley
air spora 865
antigens 2695
breeding 3571, 5177, 6679-6680, 6682, 7490
Bulgaria 6682
control 1407, 3565, 3576, 6450-6451, 8256, 8262
Czechoslovakia 4366
Denmark 4368
Egypt 2026
environmental factors 866
enzymes 2039
Europe 865, 3581
France 2037, 2693, 5896
fungicide tolerance 867, 2697, 3581, 8331
genetics 283, 1409, 2693-2694, 3570-3571, 3574-3575, 4361, 4363-4364, 6678, 7488-7489, 8328
genotype mixtures 2036, 3498, 3581
Germany 2697, 7484
growth stage 2692
histopathology 5178, 8330
host parasite relationships 2033, 2038, 2695, 4367, 5179, 6630, 7491, 8328, 8330
induced mutations 283, 6679-6680
induced resistance 3577, 4367, 6681
infection 2039
integrated control 7484
Italy 2037
models 4368
molecular genetics 2034-2035, 2038, 2605, 3573, 4365, 8327
pathogenesis-related proteins 2696, 3572, 4362
photosynthesis 3580
population dynamics 865, 4368

***Erysiphe graminis*** *cont.*
barley *cont.*
population genetics 3578, 3581
proteins 3574
races 2697, 5896
rain 4281
relative humidity 5895
resistance 1409, 2034, 2692
sampling 5845
Spain 2037, 4361
spore dispersal 865
strains 2037
UK 867, 3578, 8331
varietal reactions 3578, 5178, 5895, 6678, 8329
virulence 3578
water stress 3579
biochemistry, sterols 8151
cereals
control 2627, 3502
evolution 3501
France 3501
fungicide tolerance 1376
Germany 2627
races 3501
set-aside 7440
Sweden 1352
yield losses 2627
fungicide tolerance 5759
Gramineae, varietal reactions 5856
haustoria, isolation 1291
*Hordeum murinum*
France 2037
Italy 2037
Spain 2037
strains 2037
laboratory tests
azoles 8106
hydantoins 3289
molecular genetics
karyotypes 6683
nucleotide sequences 7323
oats
host parasite relationships 5181, 6630
photosynthesis 2705
respiration 2705
varietal reactions 2705
*Poa pratensis*
control 2089
Denmark 2089
varietal reactions 2089
rye, breeding 2011
triticale
control 1386
Romania 1386
varietal reactions 1386
*Triticum dicoccoides*
Israel 8296
Kenya 8296
screening 8296
*Triticum spelta*, breeding 2669
wheat
adjuvants 6603
assessment 7452
breeding 2011, 2669, 4306, 7451, 7466, 8276-8278
China 4337, 8307
control 835, 1386-1387, 1817, 2013, 2639, 2641, 3519, 4308, 6603, 7453-7454, 8262, 8285-8286, 8309
Croatia 3513
cultural methods 1388
Czechoslovakia 2670, 2672, 3496, 8277
enzymes 5155
epidemiology 832, 2647, 4337
ethylene production 6657
fertilizers 835
Finland 1387
forecasting 8269
fungicide tolerance 8308
fungicides 6640
genetic engineering 6653
genetics 2670, 3496, 3542, 5135, 5153-5154, 5872, 7465, 7467
genotype mixtures 1991, 3498
Germany 3539, 4311, 8308
Henan 848, 2013
Himachal Pradesh 5151, 7455
host parasite relationships 2671, 6630

***Erysiphe graminis*** *cont.*
wheat *cont.*
host range 3541
Indian Punjab 5151
induced mutations 5136, 8278-8279
induced resistance 2671, 7469
intensive cropping 4311
Kyushu 6654
mixed infections 3517
models 7452
Netherlands 3520
nitrogen 2647
North Carolina 7453
ozone 832
phosphorus 5873
physiology 6655
races 848, 2672, 3542, 4339, 6654, 6656, 8307
resistance 3539, 5151, 6657, 8305-8306
Romania 1386
Russia 2641
sampling 5845
Saskatchewan 1388
seed production 4308
Sichuan 266, 3540
Slovakia 4339
spore dispersal 1384
Switzerland 8269, 8308
symptoms 5152
testing 6657
UK 7447, 8286
Ukraine 8276
varietal reactions 266, 1386, 1389, 2647, 4338-4339, 5152-5154, 5856, 6654, 7454-7455, 7468
Virginia 7468
virulence 266, 848, 3540
yield losses 2012, 7452, 7454
Yugoslavia 3542, 6656
***Erysiphe heraclei***, carrots, New York 409
***Erysiphe panax***, *Panax pseudoginseng*, China 3192
***Erysiphe pisi***
barley, host parasite relationships 7491
peas
carbon 2132
host parasite relationships 2132
rain 4281
sowing date 8454
Uttar Pradesh 8454
***Erysiphe polygoni***
*Aloe barbadensis*, India 3403
*Coriandrum sativum*, control 7152
cowpeas
integrated pest management 2145
yield losses 2145
peas
integrated pest management 2129
Tunisia 1479
varietal reactions 3694, 4482, 6791, 7613
*Phaseolus*
composts 6609
control 6609
sunflowers, enzymes 1967
*Vigna mungo*, control 5281
*Vigna radiata*
control 383
environmental factors 971
Karnataka 383, 971
Orissa 5278
planting date 971
screening 5278
***Erysiphe polyphaga***, *Begonia*, control 6344
**Estonia**
tomatoes, tomato aspermy cucumovirus 6860
weeds, tomato aspermy cucumovirus 6860
**Ethephon**
control
*Botrytis cinerea*, faba beans 8432
*Botrytis fabae*, faba beans 8432
*Uromyces viciae-fabae*, faba beans 8432
**Ethiopia**
bananas, *Xanthomonas campestris* pv. *musacearum* 8646
chickpeas, diseases 377
coffee, *Hemileia vastatrix* 6267

**Ethiopia** *cont.*
trees, mycorrhizas 1842
wheat
*Alternaria* 8275
black point 8275
diseases 829-830
*Mycosphaerella graminicola* 2014
*Pseudocercosporella herpotrichoides* 2021
*Puccinia graminis* 1993, 8289
*Puccinia recondita* 1993, 2000, 8289
*Puccinia striiformis* 1993, 6650
**Ethirimol**
adsorption, soil 4947
control
*Cochliobolus sativus*, wheat 4310
*Erysiphe cichoracearum*, tobacco 5506
*Fusarium*, wheat 4310
fungicide tolerance
*Erysiphe graminis* 2697
*Sphaerotheca fuliginea* 4601
**Ethoxyquin**
control
apples, scald 3830, 4609
pears, scald 4609
**Ethylene diurea**, control, grapes, ozone, damage 6971
**Ethylmercury chloride**
seed treatment
maize 5850
rice 5850
wheat 5850
**Ethyltrianol**
control
*Pyricularia oryzae*, rice 330
*Sclerotium cepivorum*, onions 4545
**Etridiazole**
control, *Pythium aphanidermatum*, cucumbers 5372
fungicide residues
fruit 2451
vegetables 2451
***Eucalyptus***
*Amanita*, mycorrhizas, Western Australia 1269
Aphyllophorales, Zimbabwe 2379
*Calonectria ilicicola*
Kerala 4797
susceptibility 4797
*Calonectria quinqueseptata*
isolates 7910
Kerala 4797, 7910
susceptibility 4797
*Cryphonectria cubensis*, isolation 3136
*Cylindrocladiella*, South Africa 4792
*Cylindrocladium*, South Africa 4792
*Cylindrocladium clavatum*
Kerala 4797
pathogenicity 1698
screening 1698
susceptibility 4797
*Cylindrocladium scoparium*
pathogenicity 1698
screening 1698
diseases
Brazil 8753
Kerala 3966
*Endothia gyrosa*, South Africa 8771
fungi
nurseries 8760
reviews 8760
South Africa 8760
*Harknessia eucalyptorum*
South Africa 4225
taxonomy 4225
*Harknessia fusiformis*
South Africa 4225
taxonomy 4225
*Kirramyces*, taxonomy 1697
mycorrhizas
ecology 2501
marsupials 1843
Spain 2501
Victoria 1843
*Phaeoseptoria eucalypti*, taxonomy 1697
*Phytophthora cinnamomi*
control 5534
reviews 5534
Victoria 5534
plant extracts, antifungal agents 6999

***Eucalyptus*** *cont.*
*Wuestneia eucalyptorum*
South Africa 4225
taxonomy 4225
***Eucalyptus camaldulensis***
*Erysiphe cichoracearum*, Arizona 1152
*Gigaspora margarita*, mycorrhizas, inoculation 93
***Eucalyptus citriodora,*** *Alternaria alternata*, Karnataka 4794
***Eucalyptus cladocalyx,*** *Erysiphe cichoracearum*, Arizona 1152
***Eucalyptus diversicola,*** *Hydnangium sublamellatum*, mycorrhizas, taxonomy 4974
***Eucalyptus dumosa,*** mycorrhizas, calcium 696
***Eucalyptus globulus***
fungi
endophytes 7090
Uruguay 7090
*Hydnangium sublamellatum*, mycorrhizas, taxonomy 4974
mycorrhizas
colonization 7287
inoculum 7287
*Pisolithus tinctorius*
mycorrhizas
carbohydrates 4973
proteins 5703
***Eucalyptus grandis***
*Ceuthospora lauri*, South Africa 1151
*Cryphonectria cubensis*
pathogenicity 1085
South Africa 1085
susceptibility 4798
diseases
environmental factors 3135
Kerala 3135
nurseries 3135
*Mycosphaerella parkii*
Brazil 5535
taxonomy 5535
*Phyllosticta eucalyptorum*
Brazil 5535
taxonomy 5535
*Pilidium acerinum*, South Africa 1151
*Pisolithus tinctorius*
mycorrhizas
colonization 1259
phosphorus 7282
***Eucalyptus leucoxylon,*** *Erysiphe cichoracearum*, Arizona 1152
***Eucalyptus marginata***
*Phytophthora cinnamomi*
reviews 7908
Western Australia 7908
***Eucalyptus polyanthemos,*** *Erysiphe cichoracearum*, Arizona 1152
***Eucalyptus tereticornis***
*Calonectria quinqueseptata*
survival 3967
toxins 8770
*Fusarium*
control 7909
Uttar Pradesh 7909
plant extracts, antifungal agents 2481
*Pythium*
control 7909
Uttar Pradesh 7909
*Verticillium*
control 6292
Madhya Pradesh 6292
seeds 6292
***Eucalyptus urophylla,*** *Pisolithus tinctorius*, mycorrhizas, colonization 1259
***Eucalyptus viminalis***
*Erysiphe cichoracearum*, Arizona 1152
mycorrhizas, Santa Catarina 4116
***Eugenia,*** *Pseudocercospora punctata*, taxonomy 1924
***Eugenia dysenterica***
*Phloeosporella kitajimae*
Brazil 5045
taxonomy 5045
***Eugenia lutescens***
*Phloeosporella flavio-moralis*
Brazil 1924
taxonomy 1924
***Eulaliopsis binata,*** *Ephelis*, Henan 4783
***Euoidium***
sunflowers
biological control 4705
Cuba 4705
***Euonymus***
*Cercospora destructiva*
control 4858
culture 4858
environmental factors 4858
***Eupatorium adenophorum*** *(see Eupatorium trapezoideum)*
***Eupatorium cannabinum,*** plant extracts, antifungal agents 1831
***Eupatorium capillifolium,*** plant extracts, antifungal agents 3910
***Eupatorium odoratum***
*Alysidiopsis yunnanensis*
taxonomy 5783
Yunnan 5783
***Eupatorium trapezoideum***
*Mycovellosiella eupatorii-odorati*
biological control 2428
growth 7991
physiology 7991
***Euphorbia esula***
diseases, Nei Menggu 5611
*Rhizoctonia*, USA 8860
*Rhizoctonia solani*, USA 8860
***Euphorbia geniculata,*** *Melampsora helioscopiae*, biochemistry 2424
***Euphorbia heterophylla***
*Helminthosporium*
biological control 6364
Brazil 6364
***Euphorbia pulcherrima***
*Corynespora cassiicola*, Louisiana 7127
diseases
control 4857
integrated control 1359
Italy 1359
*Rhizoctonia solani*
control 4856
roots 4856
**Europe**
apples, *Podosphaera leucotricha* 8610
apricots
mycoplasma-like organisms 2232
plum pox potyvirus 2232
barley, *Erysiphe graminis* 865, 3581
biological control agents
environmental impact 3220
legislation 3220
cereals, *Pseudocercosporella herpotrichoides* 8261
crops
diseases 8239
*Helicobasidium purpureum* 2611
*Rhizoctonia cerealis* 2611
*Rhizoctonia solani* 2611
*Cupressus sempervirens, Seiridium cardinale* 7946
forests
decline 3215, 6288
diseases 5527, 6288
fruit, diseases 2927
*Genea*, taxonomy 6565
grapes, diseases 8630
ornamental woody plants, viruses 3993
pesticides
disposal 62
legislation 62, 3269
occupational hazards 8045
registration 679, 6422
*Picea abies, Lophodermium piceae* 1169
plant diseases
control 4290
legislation 2487, 3321, 4115
quarantine 1772
plant protection
legislation 7278
public opinion 8023
technology 8023
potatoes, *Clavibacter michiganensis* subsp. *sepedonicus* 2167
raspberries, *Phytophthora fragariae* var. *rubi* 7763
sunflowers, *Plasmopara halstedii* 523
tobacco, *Peronospora tabacina* 7883
tomatoes, viruses 6861
**European larch** *(see Larix decidua)*
***Eurotium***
immunodiagnosis 1932
sorghum
control 5197
seeds 5197
***Eurotium amstelodami***
wheat
ergosterol 1385
seeds 1385
***Eurotium chevalieri***
wheat
control 837
storage 837
***Euscelis plebeja,*** transmission, mycoplasma-like organisms 4576
***Euterpe oleracea***
*Idriella*
endophytes 774
Para 774
taxonomy 774
***Eutrema wasabi***
black leg, Honshu 5595
wasabi latent virus, Japan 5596
***Eutypa lata***
black currants, France 6168
grapes
biological control 8633
control 2987, 2997, 4652
cytology 486
epidemiology 3860
France 3860, 4652
lignocellulose 487
pruning 4652
***Excoecaria agallocha***
*Pestalotiopsis*, West Bengal 8843
*Pestalotiopsis agallochae*, West Bengal 8844
***Exserohilum,*** USSR 6549
**Faba beans** *(Vicia faba)*
artichoke yellow ringspot nepovirus
Greece 943
seeds 943
*Ascochyta fabae*
epidemiology 2114
France 2114
seeds 7606
Tunisia 1479
varietal reactions 2114
bean yellow mosaic potyvirus
detection 6002
Italy 3681
seeds 6002
*Botrytis cinerea*
Hungary 8433
induced resistance 8432
overwintering 8433
*Botrytis fabae*
biological control 4472, 7685
control 2787, 6450, 8256
forecasting 4473
induced resistance 8432
Jiangsu 4473
phytoalexins 7603
varietal reactions 2787, 5255
clover yellow mosaic potexvirus, molecular genetics 5101
*Corticium rolfsii*
epidemiology 7604
Manipur 7604
diseases
continuous cropping 5239
Poland 1489
rotations 1489
*Fusarium oxysporum*
biological control 6004
rhizosphere 6004
*Fusarium pallidoroseum*, varietal reactions 3682
*Fusarium poae*, varietal reactions 3682
*Gibberella avenacea*, varietal reactions 3682
metalaxyl, uptake 5690
pesticides
models 6429
uptake 6429
*Phomopsis fabae*, varietal reactions 1488
phyllody
mycoplasma-like organisms 4471, 8431
proteins 4471
Sudan 4471

**Faba beans** *cont.*
phyllody *cont.*
Yemen 8431
yield losses 8431
*Pleospora herbarum*
Hungary 8433
overwintering 8433
*Pseudomonas syringae* pv. *syringae*, Lithuania 2612
*Rhizoctonia solani*
biological control 6004
Chile 2115
isolates 6003
rhizosphere 6004
selection 6003
virulence 6003
seedborne fungi 7605
Hungary 8434-8435
*Uromyces viciae-fabae*
adhesion 948
chloroplasts 2788
control 2113, 6450, 8256
enzymes 2116
induced resistance 8432
infection 2116
pectinesterase 2112
Tunisia 1479
urediospores 948
varietal reactions 2111
yield losses 2111
viruses
characteristics 7602
Colombia 2786
New Zealand 8423
reviews 2100
seeds 5988
Syria 5988
***Fagopyrum cymosum*, *Sphacelotheca fagopyri***, Tamil Nadu 8852
***Fagus sylvatica***
acid deposition, Germany 8767
*Apiognomonia errabunda*
genetics 3133
strains 3133
Basidiomycotina, pathogenicity 1148
decline
detection 4807
Germany 1693, 4807, 7915
growth 1693
mineral content 7915
phenology 5536
Switzerland 1693
UK 3970, 5536
fungi
decay 1150
environmental factors 1150
UK 1150
*Fusarium arthrosporioides*
Germany 4806
pathogenicity 4806
*Hypoxylon fragiforme*
host parasite relationships 4805
infection 4805
*Nectria coccinea*
Germany 8773
insects 8773
*Nectria ditissima*
cultural methods 1700
Switzerland 1700
*Pythium ultimum*
Germany 4806
pathogenicity 4806
*Russula ochroleuca*, mycorrhizas, morphology 6478
*Trichoderma*, Germany 3125
wetwood
bacteria 7095
fatty acids 7095
pH 7095
**Falkland Islands**, *Pinus*, mycorrhizas 8130
**Farmyard manure**, activity, *Sclerotinia sclerotiorum*, cauliflowers 8512
**Fatty acids**, activity, *Ascochyta pisi*, enzymes 4198
**Fenamiphos**, control, *Phytophthora nicotianae* var. *parasitica*, tobacco 4767
**Fenarimol**
activity
*Botrytis cinerea* 1811
*Penicillium italicum* 3298
*Podosphaera leucotricha*, apples 2954
**Fenarimol** *cont.*
activity *cont.*
*Pyrenophora teres* 1811
*Ustilago zeae* 1811
control
*Ascochyta rabiei*, chickpeas 2809
*Blumeriella jaapii*, cherries 8623
*Eutypa lata*, grapes 2997
*Sphaerotheca pannosa*, peaches 4629
*Venturia inaequalis*, apples 2948
fungicide tolerance
*Sphaerotheca macularis* 2245
*Venturia inaequalis* 7736
**Fenbuconazole**
control
*Botryosphaeria dothidea*, apples 4613
*Botrytis cinerea*
roses 2407
*Ruscus hypoglossum* 3995
*Rhizoctonia solani*, barley 5901
development 7242
**Fenfuram**, seed treatment, maize 881
**Fennel** (*see Foeniculum vulgare*)
**Fenpiclonil**
activity
*Botrytis cinerea* 4104
*Gaeumannomyces graminis* var. *tritici*, wheat 2640
*Gibberella cyanogena* 5693
*Monographella nivalis* 4104
*Rhizoctonia solani*, wheat 2640
control
*Botrytis cinerea*, roses 2407
*Claviceps purpurea*, grasses 4451
potatoes, diseases 8486
seed treatment, cereals 8267
**Fenpropidin**
activity, *Ustilago zeae* 1238, 8094
control, *Rhynchosporium secalis*, barley 5899
fungicide tolerance, *Erysiphe graminis*, barley 867
**Fenpropimorph**
activity
*Botrytis cinerea* 1811
*Claviceps purpurea*, triticale 3592
*Fusarium* 6529
*Monographella nivalis* 6529
*Pyrenophora teres* 1811
*Septoria apiicola* 7248
*Ustilago zeae* 1811, 8094
control
*Alternaria linicola*, linseed 3892
*Botrytis cinerea*; linseed 3892
*Drechslera poae*, *Poa pratensis* 4450
*Leptosphaeria nodorum*, wheat 4343
*Oidium lini*, linseed 3892
*Puccinia asparagi*, asparagus 8530
*Puccinia brachypodii* var. *poae-nemoralis*, *Poa pratensis* 4450
*Puccinia poarum*, *Poa pratensis* 4450
*Puccinia recondita*, wheat 6642
*Puccinia striiformis*, wheat 6642
*Rhynchosporium secalis*, barley 5899
wheat, diseases 835, 8285
fungicide tolerance
*Erysiphe graminis* 5759, 8308
barley 867
*Puccinia striiformis* 8297
nontarget effects, nitrogen fixing bacteria 3310
structure activity relationships 4106
**Fentin**
application, safety 1813
toxicity, earthworms 7208
**Fentin acetate**
activity, *Chalara paradoxa*, *Raphia* 4784
control, *Phaseolus vulgaris*, diseases 5261-5262
**Fentin hydroxide**, control, *Phaseolus vulgaris*, diseases 5262
**Fenugreek** (*Trigonella foenum-graecum*)
*Emericella nidulans* var. *lata*, nucleosides 7148
*Rhizoctonia solani*
biological control 6350
control 6350
seedborne fungi, seed germination 625
**Ferbam**
control, *Glomerella cingulata*, *Camellia* 2403
**Ferbam** *cont.*
determination 5691
**Ferimzone**, control, *Pyricularia oryzae*, rice 5219
**Fertilizers**
activity
*Acremonium coenophialum*, *Festuca arundinacea* 343
*Alternaria mali*, apples 3825
barley
diseases 4216
root rots 1981
barley yellow dwarf luteovirus, barley 4357
*Botrytis cinerea*, *Ruscus hypoglossum* 3170
cabbages
internal rot 4557
tipburn 4557
*Cephalosporium maydis*, maize 4398
*Cercospora kikuchii*, soyabeans 6772
*Claviceps purpurea*, triticale 3592
*Cochliobolus miyabeanus*, rice 903, 6716
*Colletotrichum truncatum*, soyabeans 6768
cotton, bacteria 574
cucumber mosaic cucumovirus, squashes 3787
*Erwinia*, potatoes 7651
*Erwinia carotovora* subsp. *atroseptica* 1518
potatoes 2848
*Erwinia carotovora* subsp. *carotovora*, potatoes 2848
*Erysiphe graminis*, wheat 1388
*Fusarium oxysporum*, asparagus 8527
*Fusarium oxysporum* f.sp. *raphani*, soil 6542
*Fusarium solani*, soyabeans 6767
*Gaeumannomyces graminis*
barley 8258
wheat 850, 8258
*Gaeumannomyces graminis* var. *tritici*, wheat 851, 3548
*Gibberella fujikuroi*
asparagus 8527
rice 3645
*Heterobasidion annosum*, *Pinus sylvestris* 4832
*Leptosphaeria korrae*, *Cynodon dactylon* 1725
*Leptosphaeria nodorum*, wheat 5876
*Macrophomina phaseolina*, jute 8743
*Magnaporthe grisea*, rice 903
mycorrhizas 5727
pastures 97
*Myrothecium roridum*, soyabeans 7597
*Phytophthora cinnamomi*, avocados 2284
*Phytophthora infestans*, potatoes 979, 4522
*Pinus sylvestris*, mycorrhizas 704, 4125
potatoes
diseases 4216
storage decay 1503
*Streptomyces scabies* 6825
*Pseudomonas marginalis*, broccoli 1000
*Puccinia coronata*, *Lolium perenne* 930
*Puccinia recondita*, wheat 4318
*Pyrenophora graminea*, barley 2042
*Pyrenophora tritici-repentis*, wheat 6662
*Pyricularia oryzae*, rice 6716, 7546
*Rhizoctonia solani*, rice 2746, 5965, 6739
*Sclerotinia homoeocarpa*
*Agrostis stolonifera* var. *palustris* 345
*Poa annua* 345
*Sclerotinia sclerotiorum*, cauliflowers 8512
sorghum, mycorrhizas 716
soyabeans, mycorrhizas 716
*Ustilaginoidea virens*, rice 8386
*Venturia pirina*, pears 6931
*Verticillium dahliae*, cotton 1671

**Fertilizers** *cont.*
activity *cont.*
wheat
diseases 835-836
root rots 251, 1981
*Xanthomonas campestris* pv. *malvacearum*, cotton 3118
control, maize, diseases 4384
***Ferula, Uromyces ferulae***, Iran 6550
***Festuca***
*Acremonium*, detection 5984
*Fusarium camptoceras*, toxins 8399
*Sclerotinia homoeocarpa*
sporulation 5565
UK 5565
***Festuca arizonica***
*Acremonium*
Colorado 7166
evolution 7166
New Mexico 7166
nucleotide sequences 7166
Texas 7166
***Festuca arundinacea***
*Acremonium*, breeding 8412
*Acremonium coenophialum*
alkaloids 1467
Arkansas 5133
carbohydrates 3663
chitinase 6752
detection 341
diseases 4444, 4448, 7570
ecology 8402
economics 8402
endophytes 3348, 5978
fertilizers 343
genetic transformation 7572
immunodiagnosis 5980
insects 4444, 6333
interactions 344
mycorrhizas 3348
nutrients 8408
nutritive value 5979
physiology 7567
seeds 341, 344, 4448
toxins 343, 5980
viruses 5133
water stress 3663, 8408
barley yellow dwarf luteovirus, Arkansas 5133
*Claviceps purpurea*
control 4451
seeds 4451
vectors 6750
Virginia 6750
diseases
mowing 1729
mulching 1729
*Erwinia*
detection 341
seeds 341
fungi
endophytes 8400
ultrastructure 8400
*Lanzia*
cultural methods 932
varietal reactions 932
*Moellerodiscus*
cultural methods 932
varietal reactions 932
mycorrhizas
endophytes 3348
Kentucky 8146
seasonal variation 8146
*Puccinia graminis*
endophytes 7570
temperature 5233
varietal reactions 5233
*Rhizoctonia solani*
endophytes 4448
varietal reactions 928
*Rhizoctonia zeae*, interactions 344
***Festuca glauca, Acremonium***, insects 6333
***Festuca longifolia, Acremonium***, insects 6333
***Festuca ovina***, mycorrhizas, environmental factors 6494
***Festuca pratensis***
*Acremonium typhinum*
endophytes 2090
Switzerland 2090
***Festuca pratensis*** *cont.*
*Acremonium uncinatum*
endophytes 2090
Switzerland 2090
*Cochliobolus sativus*
breeding 3660
Switzerland 3660
*Puccinia coronata*
breeding 3660
Switzerland 3660
*Pyrenophora dictyoides*
control 6754
Lithuania 6754
*Xanthomonas campestris* pv. *graminis*
breeding 3660
Switzerland 3660
***Festuca rubra***
*Claviceps purpurea*
control 4451
seeds 4451
diseases, control 1468
mycorrhizas
ecology 8143
growth 8144
nutrient uptake 8144
***Festuca rubra* subsp. *commutata, Acremonium***, insects 6333
**FG 325**, control, *Phoma*, rape 4703
***Ficaria ranunculoides, Uromyces ficariae***, Iran 6550
***Ficus bengalensis, Polyporus ostreiformis***, physiology 8762
***Ficus benjamina, Amerosporium polynematoides***, India 3401
***Ficus carica*** (*see* Figs)
***Ficus elastica***, tomato spotted wilt tospovirus, Spain 7126
***Ficus infectoria, Glomerella cingulata***, Sikkim 8769
***Ficus pumila***
*Discosia subramanianii*
India 1921
taxonomy 1921
tomato spotted wilt tospovirus, Spain 7126
***Ficus religiosa***
*Glomerella cingulata*
control 8781
Madhya Pradesh 8781
plant extracts, antiviral agents 7057
**Field beans** (*see* Faba beans)
**Figs** (*Ficus carica*)
*Botrytis cinerea*
Armenia 7009
Azerbaijan 7009
Republic of Georgia 7009
*Cerotelium fici*
hyperparasitism 6196
Oman 6196
*Fusarium solani*
California 7788
virulence 7788
*Fusicladium fici*, Azerbaijan 3881
*Gibberella fujikuroi*
California 7788
virulence 7788
*Microdochium dimerum*
California 7788
virulence 7788
*Pleurotus cystidiosus*, Greece 490
*Sphaceloma*, Honshu 7793
**Figwort mosaic caulimovirus**
molecular genetics
coat proteins 4259
gene expression 5102, 8222
infectivity 4259
**Fiji**
*Piper methysticum*, cucumber mosaic cucumovirus 5601
*Vanilla fragrans*, viruses 4011
*Vanilla tahitensis*, viruses 4011
**Finger millet** (*see Eleusine coracana*)
**Finland**
*Betula pendula, Melampsoridium betulinum* 2381
*Betula pubescens*
acid rain 5533
*Melampsoridium betulinum* 2381
crops, diseases 135
Cruciferae, *Plasmodiophora brassicae* 6077
**Finland** *cont.*
*Pinus sylvestris*
acid rain 5533
*Gremmeniella abietina* 7111
plant diseases, legislation 2487
soil, fungicide residues 1824
strawberries, fungi 7766
wheat
*Erysiphe graminis* 1387
*Fusarium culmorum* 276
*Leptosphaeria nodorum* 1387
**Firs** (*see Abies*)
***Fitzroya cupressoides***
*Bivallum pilgerodendri*, taxonomy 592
mycorrhizas
Chile 5702
morphology 5702
***Flacourtia cataphracta, Pestalotiopsis glandicola***, Assam 3400
***Flammulina velutipes***
control
chrysanthemum B carlavirus, chrysanthemums 7134
tomato aspermy cucumovirus, chrysanthemums 7134
***Flaveria australasica***, rhizosphere fungi, Andhra Pradesh 634
***Flavobacterium***
laboratory tests
antibiotics 4055
fungicides 4055
**Flavonols**, activity, mycorrhizal fungi 5731
**Flax** (*Linum usitatissimum*)
diseases
continuous cropping 5239
genetics 7077
resistance 7077
rotations 3472
Saskatchewan 3472
tillage 3472
*Fusarium oxysporum* f.sp. *lini*
biological control 1678
control 7078, 7429
Italy 1678
Russia 7078
soil structure 576
*Gibberella avenacea*, biological control 5117
*Melampsora lini*
genetics 1679, 3120, 5519
host parasite relationships 5519
molecular genetics 3959, 6281
**Fluazifop**
activity
*Alternaria* 3290
*Aspergillus* 3290
*Penicillium* 3290
**Fluazinam**
antifungal properties 8491
control
*Aphanomyces raphani*, Chinese cabbages 2181
*Botrytis*, tulips 6346
*Phytophthora infestans*, potatoes 7644, 8491
**Flubenzimine**, activity, plant pathogenic fungi 2465
**Fluoride**, activity, *Uromyces viciae-fabae*, faba beans 2113
**Fluquinconazole**, control, crops, diseases 8097
**Flusilazole**
activity
*Gaeumannomyces graminis* var. *tritici*, wheat 2640
guavas, wilt 7805
*Pestalotiopsis psidii* 6216
*Rhizoctonia solani*, wheat 2640
*Saccharomyces cerevisiae* 81
control
*Akaropeltopsis*, avocados 2280
*Botryosphaeria dothidea*, apples 4613
*Cercospora beticola*, sugarbeet 4730
*Claviceps purpurea, Poa pratensis* 8401
*Erysiphe betae*, sugarbeet 4730
*Erysiphe graminis*, wheat 8309
*Eutypa lata*, grapes 2997
*Leptosphaeria nodorum*, wheat 268
*Litchi chinensis*, storage decay 3028
mangoes, diseases 7801

**Flusilazole** *cont.*
control *cont.*
*Mycosphaerella graminicola*, wheat 268
*Phoma*, rape 4703
*Phomopsis amygdali*, peaches 4631
*Podosphaera leucotricha*, apples 5390
*Pseudocercospora purpurea*, avocados 2280
*Rhynchosporium secalis*, barley 5899
*Sphaerotheca mors-uvae*, black currants 5390
wheat, diseases 8285
**Flutolanil**
activity
*Euphorbia pulcherrima* 4856
groundnuts, seedborne fungi 6248
control
*Corticium rolfsii*
groundnuts 3070
soyabeans 357
*Magnaporthe grisea, Stenotaphrum secundatum* 1726
*Mycosphaerella berkeleyi*, groundnuts 3070
*Rhizoctonia solani*
cotton 3112
*Euphorbia pulcherrima* 4856
potatoes 3725
rice 7557
*Stenotaphrum secundatum* 1727
rice, diseases 7535
seed treatment, *Vigna radiata* 2816
soil treatment 2816
uptake, rice 8087
**Flutriafol**
control
*Cercospora beticola*, sugarbeet 4730
*Cochliobolus sativus*, wheat 4310
*Drechslera poae, Poa pratensis* 4450
*Erysiphe betae*, sugarbeet 3918, 4730
*Erysiphe graminis*
barley 3576
wheat 6603
*Fusarium*, wheat 4310
*Puccinia brachypodii* var. *poae-nemoralis, Poa pratensis* 4450
*Puccinia graminis*, wheat 1392
*Puccinia poarum, Poa pratensis* 4450
*Pyrenophora dictyoides, Festuca pratensis* 6754
*Pyrenophora graminea*, barley 2041
*Rhizoctonia solani*, barley 5901
*Tranzschelia discolor*, almonds 4690
*Ustilago segetum* var. *tritici*, wheat 2010
*Venturia inaequalis*, apples 2948
distribution, wheat 6640
formulations 1415
fungicide residues, groundwater 2471
**Fodder beet** (*Beta vulgaris*)
*Pleospora betae*
Argentina 4540
seed treatment 3086
seeds 4540
**Fodder crops**
diseases
Egypt 6628
toxins 6629
fungi
storage 1466
toxins 1466
**Fodder legumes,** diseases, quarantine 924
***Foeniculum vulgare***
*Aspergillus flavus*
control 5594
toxins 5594
plant extracts, antifungal agents 3910
*Pseudomonas syringae*, California 7156
**Folpet**
control
*Glomerella cingulata, Camellia* 2403
*Phomopsis viticola*, grapes 4651
***Fomes annosus*** *(see Heterobasidion annosum)*
***Fomes lignosus*** *(see Rigidoporus lignosus)*
**Food**
fungicide residues 6438
pesticide residues
analysis 4072
assessment 34
**Food** *cont.*
pesticide residues *cont.*
conferences 3268
control 2476
databases 33
detection 27
determination 35
health hazards 8067
monitoring 32
processing 52
reports 4957
safety 7217
**Forest trees**
air pollution
Austria 1149
Slovenia 1149
*Armillaria*
clones 7086
New Hampshire 7086
*Armillaria obscura*
identification 3124
Ontario 3124
*Armillaria ostoyae*
control 2390
stump removal 2390
Basidiomycetes, Taiwan 2378
*Cylindrocladiella*
nuseries 1147
reviews 1147
South Africa 1147
*Cylindrocladium*
nuseries 1147
reviews 1147
South Africa 1147
decline
air pollution 8763
assessment 8764
Austria 1149, 1719, 8747, 8764-8765
estimation 8752
Italy 2380
models 8765
remote sensing 8747
Slovenia 1149
stain fungi 2380
Switzerland 6291, 8752
*Diatrype carissae*
isolates 3965
Maharashtra 3965
diseases
books 1773, 2375
Brazil 8753
British Columbia 7083
Chile 7085
control 5529
cultural methods 7085
host parasite relationships 4789
India 1354
Karnataka 5530
Madhya Pradesh 3132
Nepal 217
nurseries 3132
Ontario 1680-1686, 3121
Philippines 2372
quarantine 5530
reviews 217, 4789
Siberia 7903
Slovenia 5529
Ukraine 3127
USA 7081
Yukon 7083
fungi
books 5528
New Zealand 5528
*Heterobasidion annosum*
identification 3124
Ontario 3124
*Inonotus tomentosus*
identification 3124
Ontario 3124
mycorrhizas
air pollution 4123
inoculum 5716
reviews 4123
*Phellinus weirii*
control 2390
stump removal 2390
*Phytophthora*
reviews 1688
taxonomy 5040
root rots
identification 3124
**Forest trees** *cont.*
root rots *cont.*
Ontario 3124
*Schizophyllum commune*
seeds 7905
Uttar Pradesh 7905
seed pathology, India 1146
viruses, Czechoslovakia 1694
wood destroying fungi
host parasite relationships 5531
Ukraine 6289
**Forests**
acid deposition, Slovakia 4793
acid rain
books 582
Canada 3130
monitoring 3130
air pollution
France 2373
Germany 7088
Slovakia 4793
climatic change, reviews 7084
*Cylindrocladiella*, South Africa 4792
*Cylindrocladium*, South Africa 4792
damage, assessment 6287
decline
air pollution 8751
books 582
Croatia 7087
Czech Republic 4803
diagnosis 4803
estimation 8749
Europe 3215, 6288
Germany 1693, 8748, 8750-8751, 8766
growth 1693
Scandinavia 8751
Slovakia 3964
soil 8751
Switzerland 1692-1693, 6288, 6290
diseases
Canada 3962, 8755
climate 5527
control 3123, 8757
Europe 5527, 6288
France 2373, 3123
Idaho 8754, 8756
Mexico 7080
Nevada 8754
New Brunswick 2374, 8761
Newfoundland 7082
Nova Scotia 2374, 8761
Quebec 2376, 8758
Slovakia 3964
Switzerland 6288
Utah 8754
Wyoming 8754
mycorrhizal fungi, burning 1274
mycorrhizas
Alaska 6466
ecology 2494
Quebec 2494
**Formaldehyde,** soil treatment 2399, 3920
**Fosetyl**
activity
*Phytophthora capsici* 7700
*Phytophthora infestans* 6863
*Thielaviopsis basicola*
soil 6273
tobacco 6273
control
*Alternaria alternata*, chickpeas 968
*Alternaria porri*, onions 7662
*Botrytis cinerea*, greenhouse crops 5831
coffee, diseases 7249
fruit trees, diseases 7249
kiwifruits
crown rot 2259
postharvest decay 1597
*Macadamia*, decline 7813
pecans, diseases 7249
*Peronospora destructor*, onions 422, 7662
*Peronospora humuli*, hops 2419
*Phomopsis viticola*, grapes 4651
*Phytophthora cactorum*, apples 3823, 6922
*Phytophthora nicotianae* var. *parasitica, Gypsophila paniculata* 5576

**Fosetyl** *cont.*
control *cont.*
*Pseudoperonospora cubensis*, melons 3800
*Pythium acanthicum*, apples 2960
seed treatment, peas 7614
**Foxtail millet** (*see Setaria italica*)
***Fragaria*** (*see* Strawberries)
**France**
*Abies alba*, decline 1172, 7931
apples
diseases 2937
*Erwinia amylovora* 3828
apricots
*Pseudomonas syringae* pv. *morsprunorum* 2239
*Pseudomonas syringae* pv. *syringae* 2239
*Pseudomonas viridiflava* 2239
asparagus
*Fusarium oxysporum* 3760
*Gibberella fujikuroi* 3760
barley, *Erysiphe graminis* 2037, 2693, 5896
black currants, diseases 6168
*Carduus pycnocephalus*, diseases 2421
carrots, diseases 5299
cereals
*Erysiphe graminis* 3501
*Pseudocercosporella herpotrichoides* 7443
*Chamaemelum nobile*, bacteria 5590
Cucurbitaceae, cucurbit aphid-borne yellows virus 2209
*Dactylis glomerata*, *Acremonium coenophialum* 2761
*Dahlia*, viruses 3189
faba beans, *Ascochyta fabae* 2114
forests
air pollution 2373
diseases 2373, 3123
grapes, *Eutypa lata* 3860, 4652
groundwater, pesticides 1248
*Hordeum murinum*, *Erysiphe graminis* 2037
lettuces
*Bremia lactucae* 4564
*Pyrenochaeta lycopersici* 1006
maize, diseases 3593
marrows
silverleaf 3788
viruses 6889
*Melissa officinalis*, bacteria 5590
melons
*Pseudomonas syringae* 3811
viruses 6889
*Mentha piperita*, bacteria 5590
peaches, *Sphaerotheca pannosa* var. *persicae* 1061, 7756
pears, *Alternaria alternata* 6151
pesticides, directories 4092
*Picea abies*
decline 7931
*Heterobasidion annosum* 603
*Pinus nigra*, *Diplodia pinea* 7938
*Pinus sylvestris*, Ophiostomatales 5553
plant diseases, legislation 2486
plant protection
forecasting 3219
meteorology 3219
*Platanus acerifolia*, *Massaria platani* 3145, 3981
*Populus*
*Agrobacterium tumefaciens* 4811
*Melampsora allii-populina* 3972, 7918
*Melampsora larici-populina* 3972, 7918
*Melampsora medusae* 3972, 7918
*Populus canadensis*
*Drepanopeziza punctiformis* 7089
*Melampsora larici-populina* 7089
*Populus nigra*, *Drepanopeziza populorum* 7089
*Pseudotsuga menziesii*
diseases 2373
mycorrhizas 89
*Quercus rubra*, *Phytophthora cinnamomi* 2382-2383
rape
*Erysiphe* 4700
**France** *cont.*
rape *cont.*
*Phoma* 4703
raspberries, diseases 6167
*Salix*
*Melampsora* 7089
*Melampsora capraearum* 7089
*Sambucus nigra*, *Microsphaera vanbruntiana* 1158
soil, mycorrhizas 715
sugarbeet
beet western yellows luteovirus 1119-1120
*Cercospora beticola* 1123
diseases 1122, 3916
sunflowers
*Phomopsis* 3048-3049
*Sclerotinia sclerotiorum* 3898
*Trifolium pratense*, *Sclerotinia trifoliorum* 2771
wheat, *Pseudocercosporella herpotrichoides* 3552, 7477, 8317
***Frankliniella***
epidemiology, tomato spotted wilt tospovirus 3433
transmission, tomato spotted wilt tospovirus 3064
***Frankliniella occidentalis***
transmission
prune dwarf ilarvirus 1027
prunus necrotic ringspot ilarvirus 1027
tomato spotted wilt tospovirus 1939, 2876, 4240, 4253, 5075, 5813
***Fraxinus***
ash yellows
Illinois 3141
Iowa 3141
Missouri 3141
mycoplasma-like organisms 3141
Wisconsin 3141
***Fraxinus americana*, *Pseudomonas syringae*** pv. *savastanoi*, testing 1156
***Fraxinus excelsior***
decline, UK 5538
fungi
decay 1150, 1155
environmental factors 1150
plant water relations 1155
UK 1150, 1155
*Pseudomonas syringae* pv. *savastanoi*
IAA 6410
strains 6410
testing 1156
***Fraxinus pennsylvanica*, *Pseudomonas syringae*** pv. *savastanoi*, testing 1156
***Freesia***, freesia mosaic potyvirus, serology 5583
**Freesia leaf necrosis virus**, *Freesia refracta*, Egypt 7139
**Freesia mosaic potyvirus**
*Alstroemeria*, Italy 3190
*Freesia*, serology 5583
***Freesia refracta***, freesia leaf necrosis virus, Egypt 7139
**French bean crinkle stunt virus**
*Phaseolus vulgaris*
symptoms 8437
yield losses 8437
**French beans** (*see Phaseolus vulgaris*)
**French Polynesia**, *Vanilla tahitensis*, vanilla mosaic potyvirus 1182
**Fruit**
bacteria
expert systems 5643
identification 5643
postharvest decay 5643
*Botrytis cinerea*, control 8095
diseases
biological control 2609, 2614
biotechnology 6910
books 7175
certification 7277
control 4041, 8096
Europe 2927
information 6139
integrated control 2927, 6139
Italy 6139
reviews 7175
Russia 4041
disorders, books 5628
**Fruit** *cont.*
fungicide residues
determination 6577
Rio de Janeiro 78
mycoplasma-like organisms, diagnosis 1570
*Pestalotiopsis*
China 1312
taxonomy 1312
pesticide residues
analysis 4082, 4087
Chile 2459
detection 2451
estimation 2450
legislation 2459
safety 54
Sweden 1227
postharvest decay
biological control 3464, 3471, 4282
control 1039, 5121, 6511
reviews 4282, 5121, 6912
storage decay
biological control 5840
control 6142
viroids, diagnosis 1570
viruses, diagnosis 1570
**Fruit trees**
damage
Liechtenstein 2928
Switzerland 2928
diseases
Argentina 4946
control 2942, 4946, 7249
integrated control 2926
Liechtenstein 2928
spraying equipment 2942
Switzerland 2928
*Erwinia amylovora*, Sweden 1351
mycorrhizas, reviews 1270
pesticides
application 6911
application rates 26
viruses, certification 7268-7270
**Fuberidazole**
control, *Claviceps purpurea*, grasses 4451
seed treatment
asparagus 8532
maize 881
rye 7436
wheat 7436
***Fulvia fulva***
*Dicyma pulvinata*, hyperparasitism 5339
molecular genetics
DNA 8162
genetic transformation 8162
protoplast fusion 8162
tomatoes
elicitors 8565
genetics 811, 5331, 7677
host parasite relationships 811, 2195
molecular genetics 437, 2605, 4585, 6864, 7679, 8541
pathogenesis-related proteins 2195, 6096
pathogenicity 4585
symptoms 6856
virulence 437
**Fungi**
antibacterial agents 5668
antifungal agents 5668
*Azospirillum*, antagonism 2484
bacteria, antagonism 7429
biochemistry
polysaccharides 5008
taxonomy 5008
biotechnology, books 4902
books 3217
cell walls, books 7312
China 8174
collections, catalogues 3390
control, weeds 7996
cultures, mites 6509
distribution, mountains 8175
diversity 4912
ecology
books 2435
reviews 2531
enzymes, detection 3425
genetics, sporulation 5742

**Fungi** *cont.*
herbaria
databases 5777
Hawaii 762
Massachusetts 7383
New Zealand 761
hyperparasites 6510
hyperparasitism, reviews 99
image analysis 141
immunodiagnosis 1932
India, books 5629
interactions, Nematoda 3478-3479
Jammu and Kashmir, books 1901
laboratory tests
disinfectants 6425
heavy metals 5740
maize, Germany 880
molecular genetics
mitochondrial DNA 5002
techniques 131
morphogenesis, proteins 7314
mutualism, reviews 1837
New Zealand 7367
polymerase chain reaction, reviews 7392
*Pseudomonas maltophila*, antagonism 3247
sand, Spain 2547
sclerotia, development, reviews 103
spores, characteristics 1874
taxonomy 6568
molecular biology, reviews 775
nomenclature 1918, 8172
toxins 6457
biosynthesis 102
reviews 6507
transmission
Nematoda 3477
viruses 787, 5807
Turkey 1306
**Fungicides** (*see also* Pesticides)
activity
mycorrhizas 5727-5728
phyllosphere microorganisms 6434
wheat, diseases 839
analysis 1237
application rates, economics 30
books 674, 7207
degradation, soil 8061
evaluation 6440-6441, 8084
*Ascochyta pisi* 7615
*Botrytis cinerea* 7615, 7949
*Erysiphe polyphaga* 6344
*Microsphaera begoniae* 6344
*Mycosphaerella pinodes* 7615
*Phoma medicaginis* var. *pinodella* 7615
*Puccinia horiana* 7238
information, Japan 22
mixtures, activity 687
mobility
*Capsicum* 1800
sour oranges 1800
nontarget effects 1251
*Aphidoletes aphidimyza* 8114
beneficial insects 2448
insects 5851
phylloplane fungi 5851
*Typhlodromus pyri* 6961
regulation, risk assessment 37
residues
determination 3284, 6435
food 6438
grapes 2253
Italy 3831
pears 3831
seed treatment
Germany 6419
registration 6419
soil, mobility 4112
tolerance
committees 3288, 8082
models 3287
reviews 5667
USA 67
usage
Denmark 7235-7236
Japan 5955
pome fruits 1040
rice 5951, 5955
USA 19, 5951
Washington 1040

**Fungicides** *cont.*
usage *cont.*
wheat 8284
**Furadan** (*see* Carbofuran)
**Furalaxyl**
activity, mycorrhizal fungi, soil 3345
control
*Phytophthora nicotianae* var. *parasitica*, *Saintpaulia ionantha* 3187
tomatoes, diseases 8561
fungicide residues, soil 2469
soil treatment 3345
***Furcraea***
furcraea necrotic streak virus
characteristics 1141
Colombia 1141
control 6282
herbicides 6282
**Furcraea necrotic streak virus**
*Furcraea*
characteristics 1141
Colombia 1141
control 6282
herbicides 6282
**Furfuraldehyde**
activity
*Corticium rolfsii* 4211
soil flora 4211
***Fusarium***
activity, soyabeans 1487
air spora, Germany 3356
*Albizia lebbek*, Puerto Rico 5544
*Allium chinense*
insects 7660
Japan 7660
*Alstroemeria*
Alberta 5584
varietal reactions 5584
*Amaranthus*, Nepal 5976
*Angelica*, transmission 3191
antagonism, *Sclerotinia sclerotiorum* 4177
apples
interactions 2938
replant disease 2938
asparagus
control 1007
seed treatment 8532
Spain 1007
avocados, New Zealand 512
barley
crop mixtures 6631
Czechoslovakia 1374
seed germination 5852
seeds 6636
varietal reactions 5852
biochemistry, enzymes 6508
*Bromus inermis*, USSR 2755
cereals
control 3502
Russia 3504
China 3373
Coniferae
Nematoda 3147, 8786
Ontario 8786
Russia 3147
seeds 5549
control
*Fusarium culmorum*
barley 292
wheat 276
*Fusarium oxysporum* f.sp. *dianthi*, carnations 617
*Fusarium oxysporum* f.sp. *lini*, flax 1678
*Fusarium oxysporum* f.sp. *vanillae*, *Vanilla planifolia* 626
*Coriandrum sativum*, varietal reactions 4884
cotton
China 8738
control 5517
pathogenicity 3955, 8738
seeds 3955, 5517
crops, Turkey 760
*Croton sublyratus*
control 7147
Thailand 7147
cucumbers
control 7715
Jilin 7715

***Fusarium*** *cont.*
cucumbers *cont.*
screening 7716
diagnosis 4229
*Eleusine coracana*
Madhya Pradesh 2727
seeds 2727
*Eucalyptus tereticornis*
control 7909
Uttar Pradesh 7909
*Euphorbia esula*, Nei Menggu 5611
faba beans
Hungary 8435
seeds 8435
genetics, chromosome number 7348
*Ginkgo biloba*, China 8787
groundnuts, Oklahoma 1101
hops, control 8832
horticultural crops, Denmark 5839
immunodiagnosis 1932
India 6569
laboratory tests
fenpropimorph 6529
flubenzimine 2465
pH 4191
plant extracts 6465
linseed
seeds 6237
UK 5464, 8673
yield losses 5464
lucerne
California 7576
Siberia 8416
testing 780
varietal reactions 8416
yield losses 7576
maize
control 879, 5916
Germany 880
Mexico 5916
seeds 879
storage 6697
toxins 2065
mandarins
environmental factors 8650
symptoms 8650
Tamil Nadu 8650
melons
control 3808
storage 3808
*Mimosa*, control 3129
mulberries
control 1588
pathogenicity 1588
Zhejiang 1588
Nematoda, interactions 3475
oats
biological control 1379
Brazil 1379
Latvia 826
plant residues 1379
seed germination 5852
varietal reactions 5852
*Onobrychis viciifolia*
Alberta 2098
screening 2098
ornamental plants, suppressive soils 6328
*Panicum repens*
flooding 5610
Florida 5610
pastures, isolation 2088
peas, Ukraine 952
*Pennisetum americanum*
Lesotho 5038
Nigeria 5038
seeds 3505
Southern Africa 3505
Zimbabwe 5038
*Phaseolus coccineus*, seeds 4478
*Phaseolus vulgaris*
glyphosate 3423
roots 3423
rotations 8443
varietal reactions 8443
pigments 2541
pineapples, Peru 4682
*Pinus*
seeds 6312
Uttar Pradesh 6312
potatoes
control 8486

*Fusarium* *cont.*
potatoes *cont.*
fungicide tolerance 2162
Poland 6061
Russia 4518
soil management 6813
storage 1509, 2162, 5283, 6061
UK 8486
varietal reactions 1509, 6061
preservation 4235
protoplast fusion 617
*Pseudomonas*, antagonism 282
*Pseudotsuga menziesii*
pathogenicity 5554
seeds 5554
rice, Honshu 5210
sand, Spain 2547
*Sechium edule*, storage 3793
sesame
biological control 1107
Korea Republic 1107
Mexico 7037
soil water 7037
soil
Bangladesh 119
biological control 120
control 5916
interactions 120
Lesotho 5038
Mexico 5916
Nigeria 5038
soil management 6813
soil structure 576
Zimbabwe 5038
sorghum
Lesotho 5038
Nigeria 5038
seeds 3505, 8358
Southern Africa 3505
Zimbabwe 5038
soyabeans
biological control 1482
Brazil 1482
induced mutations 8427
plant residues 1482
Russia 2108
seeds 365
taxonomy 1908, 6560, 6569
reviews 4222
tomatoes
selection 8552
toxins 8552
toxins 109, 3373, 4190, 5769
*Trifolium*, testing 780
*Trifolium pratense*
biochemistry 3671
resistance 3671
triticale, Moldova 875
wheat
biological control 1379
Brazil 1379
control 3512, 3514, 4310, 8287
Croatia 3513
crop growth stage 5855
crop mixtures 6631
Czechoslovakia 1374
genotype mixtures 1991
Germany 4348
glyphosate 3423
inoculum 280
Manitoba 1402
plant residues 1379
Poland 5855
roots 3423
rotations 3472
Saskatchewan 3472
seed germination 5852
seeds 1402, 4310, 6636
Siberia 4310
South Africa 280, 1404
testing 780
tillage 3472
toxins 4348
UK 8287
USSR 255
varietal reactions 3556, 5852
yield losses 1402
*Zingiber officinale*
Maharashtra 3196
Nematoda 3196

***Fusarium acuminatum* subsp. *armeniacum***, taxonomy, new subspecies 4226
***Fusarium aquaeductum***, antagonism, *Sclerotinia sclerotiorum* 740
***Fusarium arthrosporioides***
*Fagus sylvatica*
Germany 4806
pathogenicity 4806
***Fusarium camptoceras***
cotton, China 8738
*Festuca*, toxins 8399
mulberries, Zhejiang 1588
rice, toxins 8399
***Fusarium chlamydosporum***
cotton
pathogenicity 3955
seeds 3955
*Eichhornia crassipes*, Haryana 8859
mulberries, Zhejiang 1588
*Pennisetum americanum*
Georgia 4407
seeds 4407
toxins 4407
tomatoes
environmental factors 5337
storage 5337
***Fusarium crookwellense***
cereals
New Zealand 3499
toxins 3499
pasture plants
New Zealand 3499
toxins 3499
wheat, varietal reactions 4300
***Fusarium culmorum***
barley
biological control 292
Czechoslovakia 1374
Latvia 826
seeds 6636
testing 7442
varietal reactions 4300
cereals
New Zealand 3499
seed germination 5852
toxins 3499
control, *Erysiphe graminis*, barley 3577
laboratory tests
plant extracts 3315
prochloraz 2463
quinconazole 2463
maize, toxins 5192
molecular genetics, genetic transformation 3378
oats
Germany 4375
Latvia 826
seeds 4375
pasture plants
New Zealand 3499
toxins 3499
rye
breeding 5908
screening 3591
testing 6691
varietal reactions 3591
sugarbeet
control 5489
UK 5489
tomatoes
roots 8560
ultrastructure 8560
wheat
Austria 6673
biological control 276
breeding 3553, 8319
chloride 251
control 2648, 2682, 7456, 8323
Czechoslovakia 1374
enzymes 4312
epidemiology 8281
Finland 276
genetics 3507, 3554
*in vitro* selection 854
Iran 6672
Italy 2648, 2682
Minnesota 251
mixed infections 3517
pathogenicity 2687
photosynthesis 5884
resistance 3554

***Fusarium culmorum*** *cont.*
wheat *cont.*
rhizosphere 2687
seed treatment 7456
seeds 4312, 6636
testing 7442
toxins 4352, 5884, 8319
UK 8281, 8323
varietal reactions 3507, 4300, 4352, 6673
***Fusarium equiseti***
*Capsicum*, Bulgaria 1559
cotton
China 8738
pathogenicity 3955
seeds 3955
garlic
symptoms 7663
Tamil Nadu 7663
maize, culture media 7505
mulberries, Zhejiang 1588
pawpaws
control 3037
storage 3037
*Pennisetum americanum*
seeds 3505
Southern Africa 3505
*Phaseolus vulgaris*
Honduras 3687
seeds 3687
*Phyllanthus emblica*
Jammu and Kashmir 6218
postharvest decay 6218
rice, endophytes 3640
soil
Argentina 6675
water stress 6675
sorghum
seeds 3505
Southern Africa 3505
soyabeans, Shandong 3679
sugarbeet, toxins 7859
tomatoes
environmental factors 5337
storage 5337
wheat
Argentina 6675
Hungary 6671
seeds 6671
toxins 6671
water stress 6675
***Fusarium graminearum*** *(see Gibberella zeae)*
***Fusarium lateritium* var. *buxi***, maize, mixed infections 7501
***Fusarium longipes***
guavas, antagonists 5454
*Trichoderma harzianum*, antagonism 5454
*Trichoderma piluliferum*, antagonism 5454
***Fusarium moniliforme*** *(see Gibberella fujikuroi)*
***Fusarium napiforme***, molecular genetics, DNA 3424
***Fusarium nivale*** *(see Monographella nivalis)*
***Fusarium nygamai***
molecular genetics, DNA 3424
*Striga hermonthica*, biological control 8851
***Fusarium oxysporum***
activity, *Fusarium oxysporum*, watermelons 3806
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
*Alcaligenes*, antagonism 1293
asparagus
Connecticut 8527, 8529
control 3760, 8524, 8527
fertilizers 8527
France 3760
Italy 8524
Michigan 8529, 8534
mixed infections 2879
Netherlands 6854
New Zealand 430
replanting 6854
transmission 3760
vegetative compatibility groups 8529

***Fusarium oxysporum*** *cont.*
aubergines, mixed infections 2167
bacteria, antagonism 6547
bananas
Côte d'Ivoire 1598
Nematoda 1598
*Capsicum*, Bulgaria 1559
cassava
Brazil 6065
Colombia 6065
integrated control 6065
chickpeas
biological control 232
India 232
chrysanthemums, Italy 3186
coconuts
symptoms 7823
Tanzania 7823
*Colocasia esculenta*, yield losses 1532
control
*Fusarium oxysporum* f.sp. *asparagi*, asparagus 8528
*Fusarium oxysporum* f.sp. *dianthi*, carnations 612, 5580, 7138
*Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 8540
*Gibberella fujikuroi*, asparagus 8528
Solanaceae, diseases 7683
*Verticillium dahliae*, aubergines 8540
cotton
biological control 2484
China 8738
pathogenicity 3955
seeds 3955
cowpeas, biological control 7624
cucumbers
China 8595
races 8595
Zhejiang 6136
*Cucurbita*, symptoms 7718
Cucurbitaceae
formae speciales 3797
molecular genetics 3797
culture media 5022, 6528
*Datura stramonium*
Mississippi 4897
toxins 4897
*Eucalyptus*, Kerala 3966
faba beans
biological control 6004
rhizosphere 6004
seeds 7605
garlic
symptoms 7663
Tamil Nadu 7663
genetics, chromosome number 7347
groundnuts
biological control 232
India 232
*Helichrysum*, New South Wales 5575
*Hevea brasiliensis*, seeds 2369
hops, Beijing 4016
interactions, Nematoda 7335
laboratory tests
antifungal agents 4948
kojic acid 3291
metal ions 8148
phenolic compounds 5772
plant extracts 1701, 1831, 1835, 2481
silver 8148
lentils
biological control 232
cytology 373
India 232
infection 373
Liliaceae, vegetative compatibility groups 7969
lucerne
*in vitro* selection 7581
insects 5234
Mexico 6755
phenolic compounds 2762
resistance 2762
seeds 6755
toxins 7581
varietal reactions 6755
melons
Rajasthan 5374
varietal reactions 5374
molecular genetics
DNA 8160

***Fusarium oxysporum*** *cont.*
molecular genetics *cont.*
nucleotide sequences 116
monoclonal antibodies 6527
mulberries, Zhejiang 1588
*Ocimum basilicum*, California 7154
peas
Netherlands 6792
plant extracts 1831
varietal reactions 8453
*Phoenix canariensis*, Italy 7955
*Pinus*
biological control 601
soil fungi 121
*Pinus gerardiana*, seeds 8791
potatoes
antagonists 2822
biological control 7428
storage 7428
quinces
Jammu and Kashmir 8620
storage 8620
rice
breeding 7551
discoloration 5954
endophytes 3640
varietal reactions 8384
vectors 5954
safflower
Iran 7822
seeds 7822
*Schlumbergera truncata*, varietal reactions 7974
sesame, rotations 7843
soil
California 739, 5036, 7354
Michigan 8534
mitochondrial DNA 739, 5036
Patagonia 6675
vegetative compatibility groups 739, 5036
soyabeans
selection 8246
Shandong 3679
varietal reactions 6000
spinach, control 5320
*Streptomyces griseoviridis*, hyperparasitism 4175
temperature 6528
tobacco, Nematoda 7886
tomatoes
Jammu and Kashmir 8563
storage 8563
*Trichoderma*, antagonism 8167
*Trifolium pratense*
breeding 936
control 8420
mixed infections 3672
resistance 5987
screening 8419
selection 349
varietal reactions 1475, 3672
*Vanilla planifolia*
hosts 3199
Indonesia 3199
*Vigna umbellata*
control 6026
seeds 6026
*Vulpia ciliata*, mycorrhizas 5719
watermelons
biological control 3806
control 3799
wheat
Patagonia 6675
pathogenicity 2687
rhizosphere 2687
***Fusarium oxysporum* f.sp. *albedinis***
dates
edaphic factors 4687
enzymes 5453
Morocco 4687
varietal reactions 5453
***Fusarium oxysporum* f.sp. *allii***, Liliaceae, vegetative compatibility groups 7969
***Fusarium oxysporum* f.sp. *asparagi***
asparagus
biological control 8528
control 8526, 8528
host parasite relationships 8525
Italy 8523, 8533
Mexico 8526

***Fusarium oxysporum* f.sp. *asparagi*** *cont.*
asparagus *cont.*
mycorrhizas 8537
Netherlands 432
phosphorus 8537
Taiwan 8528
toxins 8525
USA 8526
varietal reactions 8523
Liliaceae, vegetative compatibility groups 7969
***Fusarium oxysporum* f.sp. *callistephi***, *Callistephus chinensis*, varietal reactions 4002
***Fusarium oxysporum* f.sp. *capsici***, *Capsicum*, screening 6121
***Fusarium oxysporum* f.sp. *cepae***
Liliaceae, vegetative compatibility groups 7969
onions, control 2175
***Fusarium oxysporum* f.sp. *chrysanthemi***, chrysanthemums, Maharashtra 7962
***Fusarium oxysporum* f.sp. *ciceris***
chickpeas
Andhra Pradesh 6798
Bangladesh 954
Bihar 6796
breeding 954
control 377, 7621
Ethiopia 377
host parasite relationships 3700
integrated control 4497
Myanmar 2133
reviews 958
screening 6017, 6796-6797
selection 3701
soil density 376
soil water 2808
toxins 3701
***Fusarium oxysporum* f.sp. *conglutinans***
*Brassica campestris*, antagonists 5312
radishes, biological control 227
*Tagetes patula*
elicitors 611
thiophenes 611
***Fusarium oxysporum* f.sp. *cubense***
bananas
distribution 2260
Malawi 493
reviews 6977
Rwanda 5436
varietal reactions 493
***Fusarium oxysporum* f.sp. *cucumerinum***
cucumbers
survival 1034
symptoms 2213
toxins 2213
soil
spore germination 5032
survival 1034
***Fusarium oxysporum* f.sp. *cumini***, soil, control 748
***Fusarium oxysporum* f.sp. *dianthi***
carnations
biological control 612-613, 615, 617, 5580, 7138
green manures 3184
nitrogen 6345
phytoalexins 5581
selection 8813
varietal reactions 7135, 7137
soil, green manures 3184
***Fusarium oxysporum* f.sp. *elaeidis***
oil palms
Brazil 4711
isolates 4711, 5467
molecular genetics 5467
seeds 7021
testing 7021
vegetative compatibility groups 5467
virulence 4711
Zaire 4711
***Fusarium oxysporum* f.sp. *eleocharidis***, *Eleocharis tuberosa*, control 1533
***Fusarium oxysporum* f.sp. *fragariae***
strawberries
Nematoda 3851
yield losses 3851
***Fusarium oxysporum* f.sp. *garlic***, Liliaceae, vegetative compatibility groups 7969

***Fusarium oxysporum* f.sp. *gerberae*, *Gerbera*,** biological control 614
***Fusarium oxysporum* f.sp. *lactucum***
lettuces
California 8519
taxonomy 8519
***Fusarium oxysporum* f.sp. *lagenariae***
*Cucurbita*, pathogenicity 8600
*Cucurbita ficifolia*, symptoms 7718
*Cucurbita maxima*, symptoms 7718
pumpkins
Japan 8600
pathogenicity 8600
***Fusarium oxysporum* f.sp. *lilii***
Liliaceae, vegetative compatibility groups 7969
*Lilium*, screening 7968
***Fusarium oxysporum* f.sp. *lini***
flax
biological control 1678
control 7078, 7429
genetics 7077
Italy 1678
Russia 7078
soil structure 576
linseed
genetics 2298
Germany 3045
UK 8673
soil
Algeria 5033
soil texture 5033
***Fusarium oxysporum* f.sp. *lycopersici***
*Aspergillus nidulans*, antagonism 4206
biochemistry, enzymes 5029
cotton, biological control 3480
laboratory tests
heat treatment 5774
prochloraz 2463
pyrimidines 7244
quinconazole 2463
*Lycopersicon*, resistance 2897
*Lycopersicon peruvianum*
elicitors 8549
host parasite relationships 8549
*Mucor rouxii*, antagonism 4206
*Penicillium oxalicum*, antagonism 4206
*Penicillium purpurogenum*, antagonism 4206
*Pseudomonas*, antagonism 3775
tomatoes
antagonists 3775
arthropod pests 5332
biological control 3480, 7683, 8540
control 5333, 6868
enzymes 3774
host parasite relationships 2194, 3774, 7678
induced resistance 5332
integrated control 6865
Iran 6866
isoenzymes 2899
Japan 5334
mixed infections 6106
Nematoda 6097
pathogenicity 1552
population genetics 2899
Queensland 6103
races 6103, 6866
root exudates 1013
roots 8560
screening 5334, 7678
soil solarization 3480
soilless culture 6106
Switzerland 6106
symptoms 6856
toxins 2194
Turkmenistan 6868
ultrastructure 8560
varietal reactions 1013, 1552, 6866, 7680
vegetative compatibility groups 6103
***Fusarium oxysporum* f.sp. *medicaginis***
lucerne
Nematoda 5986
selection 8415
***Fusarium oxysporum* f.sp. *melonis***
*Cucurbita ficifolia*, symptoms 7718
melons
races 8592
screening 5367
***Fusarium oxysporum* f.sp. *melonis* *cont.***
melons *cont.*
Spain 8592
varietal reactions 8592
***Fusarium oxysporum* f.sp. *narcissi*, *Narcissus*,** screening 1180
***Fusarium oxysporum* f.sp. *nelumbicola*, *Nelumbo nucifera*,** Jiangxi 1742
***Fusarium oxysporum* f.sp. *niveum***
cucumbers
Shangdong 6904
varietal reactions 6904
molecular genetics
mitochondrial DNA 3374
restriction fragment length polymorphism 3374
watermelons
biological control 1566
control 4599
Cyprus 5369
Henan 4599
inoculation 3795
races 6903
testing 3795
Turkey 6903
varietal reactions 4598, 5369
***Fusarium oxysporum* f.sp. *phaseoli***
*Phaseolus vulgaris*
Colombia 6777
Colorado 6777
control 5259
enzymes 7609
Guangxi 5259
phytoalexins 7609
races 6777
South Carolina 6777
***Fusarium oxysporum* f.sp. *pisi***
molecular genetics
DNA 8457
races 8457
peas
breeding 2803
races 7617
*Pseudomonas fluorescens*, antagonism 5125
tomatoes
roots 8560
ultrastructure 8560
***Fusarium oxysporum* f.sp. *psidii***
guavas
antagonists 5454
control 1617
*Streptomyces chibaensis*, antagonism 5454
*Trichoderma lignorum*, antagonism 5454
*Trichoderma piluliferum*, antagonism 5454
*Trichoderma viride*, antagonism 5454
***Fusarium oxysporum* f.sp. *radicis-lycopersici***
biochemistry, enzymes 5029
laboratory tests, chitosan 2191
tomatoes
biological control 6608, 8544
chitosan 2196
host parasite relationships 2196
induced resistance 2196
Italy 5340
pathogenicity 1552
symptoms 6856
varietal reactions 1552
***Fusarium oxysporum* f.sp. *raphani***
radishes
selection 4537
soil amendments 2177
soil
fertilizers 6542
population dynamics 6542
spore germination 5032
soil bacteria, antagonism 5034
***Fusarium oxysporum* f.sp. *ricini*, *Ricinus communis*,** control 2326
***Fusarium oxysporum* f.sp. *sesami***
*Aspergillus terreus*, antagonism 2327
*Bacillus subtilis*, antagonism 2327
laboratory tests, triazoles 75
sesame
antagonists 2327
rotations 2327
seeds 1106
***Fusarium oxysporum* f.sp. *sesami* *cont.***
*Trichoderma harzianum*, antagonism 2327
*Trichoderma longibrachiatum*, antagonism 2327
***Fusarium oxysporum* f.sp. *tuberosi***
potatoes
pathogenicity 403
South Africa 403
vegetative compatibility groups 403
***Fusarium oxysporum* f.sp. *tulipae*,** Liliaceae, vegetative compatibility groups 7969
***Fusarium oxysporum* f.sp. *vanillae***
laboratory tests, plant extracts 626
*Vanilla planifolia*
Indonesia 626
integrated control 626
***Fusarium oxysporum* f.sp. *vasinfectum***
cotton
Alabama 1135, 3116
Angola 7076
herbicides 1677
inoculation 5518
isolates 7076
Nematoda 3950, 7891, 8741
pathogenesis-related proteins 8737
planting date 8741
remote sensing 3949
resistance 8737
reviews 1674, 1676, 2357
Tanzania 7891
varietal reactions 1135, 3116, 3950, 8741
molecular genetics, restriction fragment length polymorphism 4777
races, differentiation 4777
sesame, biological control 7844
soil, inoculation 5518
tomatoes, control 5333
vegetative compatibility groups, differentiation 4777
***Fusarium oxysporum* var. *redolens***
aubergines, mixed infections 2167
*Pinus*, biological control 601
***Fusarium pallidoroseum***
bamboos, Assam 4818
bananas
control 494
pathogenicity 3869
postharvest decay 494
Windward Islands 3869
*Convolvulus arvensis*, Haryana 8859
cotton
China 8738
pathogenicity 3955
seeds 3955
*Datura stramonium*, Mississippi 4897
faba beans, varietal reactions 3682
*Heritiera fomes*, West Bengal 8843
laboratory tests, heavy metals 5741
maize, culture media 7505
melons, physiology 8593
mulberries
control 4640
Karnataka 4640
Zhejiang 1588
*Pennisetum americanum*
Georgia 4407
seeds 4407
toxins 4407
*Phaseolus vulgaris*
Honduras 3687
seeds 3687
*Samanea saman*
control 4821
Orissa 4821
tomatoes
Jammu and Kashmir 8563
storage 8563
wheat
Hungary 6671
seeds 6671
toxins 6671
***Fusarium poae***
faba beans, varietal reactions 3682
oats
Germany 4375
seeds 4375
sugarbeet, toxins 7859

***Fusarium poae*** *cont.*
wheat
Hungary 6671
seeds 6671
toxins 6671
***Fusarium proliferatum***
melons
seeds 5124
vegetative compatibility groups 5124
onions
seeds 5124
vegetative compatibility groups 5124
wheat, Iran 6672
***Fusarium roseum***
asparagus, Italy 8533
barley, testing 7442
fodder crops
Egypt 6628
toxins 6629
laboratory tests, homeopathic drugs 6511
spore germination 6512
wheat, testing 7442
***Fusarium roseum* var. *sambucinum***, potatoes, soil pH 982
***Fusarium sambucinum* var. *coeruleum***
wheat
pathogenicity 2687
rhizosphere 2687
***Fusarium solani***
asparagus, Italy 8533
barley, proteins 3493
*Canavalia*, seeds 6030
*Capsicum*, Bulgaria 1559
carrots
Italy 4532
postharvest decay 4532
cassava
Brazil 6065
Colombia 6065
integrated control 6065
cauliflowers, environmental factors 6847
chickpeas
Andhra Pradesh 6798
control 377
Ethiopia 377
citrus, China 5443
cotton
China 8738
pathogenicity 3955
seeds 3955
cowpeas
control 3709
environmental factors 3709
Cucurbitaceae, antagonists 3809
figs
California 7788
virulence 7788
guavas, antagonists 5454
*Hevea brasiliensis*, seeds 2369
hyperparasitism, *Puccinia arachidis* 6252
jute, mycorrhizas 4145
*Lablab purpureus*, environmental factors 4505
laboratory tests
antifungal agents 1814, 5695
fungicides 7241
phosphonates 2466
plant extracts 3286
thiazolidinones 80
triaryl ethers 2468
maize
cropping systems 4392
proteins 3493
soil 4392
mangoes
dieback 3022
Himachal Pradesh 3022
melons, soil amendments 3807
mulberries, Zhejiang 1588
okras
Mexico 6138
Nematoda 6138
*Oroxylum indicum*
Assam 4820
seeds 4820
*Panax pseudoginseng*
biological control 5592
soil fungistasis 7976
passion fruits, Zimbabwe 4657
pawpaws
Nematoda 1083-1084
***Fusarium solani*** *cont.*
pawpaws *cont.*
pathogenicity 8659
plant age 1083
postharvest decay 7806
peas
control 7614
Netherlands 6792
varietal reactions 8453
*Phaseolus vulgaris*
drought 6782
Honduras 3687
Mexico 6775, 6782
seeds 3687
soil amendments 8440
soil water 6784
varietal resistance 6784
yield losses 6775
*Pinus*, biological control 601
*Piper nigrum*, Nematoda 623
potatoes
antagonists 2822
environmental factors 2845
varietal reactions 2845
*Pseudomonas fluorescens*, antagonism 5125
sesame, rotations 7843
soil, soil amendments 3807
soil bacteria, antagonism 3809
soil fungi, antagonism 3809
soyabeans
control 6767
fertilizers 6767
Hungary 5996
Illinois 4465
Missouri 7592
Nematoda 7592
Shandong 3679
testing 4465, 5991
varietal reactions 5991, 6000
sweet potatoes, mixed infections 8501
taxonomy 768
*Tectona grandis*
Kerala 4796
transmission 4796
tobacco
enzymes 5509
genetic transformation 5509
tomatoes, infection 2193
*Trichoderma harzianum*, antagonism 4176, 5454
*Trifolium pratense*
breeding 936
control 8420
mixed infections 3672
resistance 5987
screening 8419
varietal reactions 1475, 3672
wheat
pathogenicity 2687
rhizosphere 2687
*Xanthosoma sagittifolium*
breeding 4536
Cameroon 4536
***Fusarium solani* f.sp. *cucurbitae***, molecular genetics, genetic transformation 742
***Fusarium solani* f.sp. *phaseoli***
peas
host parasite relationships 2131
pathogenesis-related proteins 2131
*Phaseolus vulgaris*
insects 2797
Malawi 2797
phytoalexins 215
soil, control 6543
*Vigna radiata*
environmental factors 7626
hydroponics 2146, 7626
pH 2146
temperature 2146
***Fusarium solani* f.sp. *piperis***, *Piper nigrum*, induced mutations 2415
***Fusarium solani* f.sp. *pisi***
chickpeas
soil density 376
soil water 2808
laboratory tests, glyphosate 3693
molecular genetics
enzymes 5027
nucleotide sequences 5027
pathogenesis 5027
***Fusarium solani* f.sp. *pisi*** *cont.*
soil, spore germination 5032
***Fusarium solani* var. *coeruleum***
potatoes
fertilizers 1503
fungicide tolerance 984
Germany 981
soil pH 982
storage 1503, 2844
UK 984
varietal reactions 2844
***Fusarium sporotrichioides***
laboratory tests, plant extracts 1833
oats
Germany 4375
seeds 4375
sugarbeet, toxins 7859
tobacco, genetic transformation 4769
wheat
Hungary 6671
seeds 6671
toxins 6671
***Fusarium tricinctum***
oats
Germany 4375
seeds 4375
***Fusarium udum***
pigeon peas
phytoalexins 4498
reviews 965
rotations 8465
seed germination 962
spore germination 963
varietal reactions 4498, 8465
***Fusicladium, Populus***, Jammu and Kashmir 4810
***Fusicladium fici***, figs, Azerbaijan 3881
***Fusicoccum, Hevea brasiliensis***, Malaysia 6285
**Futhalide**, control, *Pyricularia oryzae*, rice 4424
**Fytolan** (*see* Copper oxychloride)
***Gaeumannomyces graminis***
bacteria, antagonism 5003
barley
control 2702
crop mixtures 6631
cultural methods 2702
fertilizers 8258
varietal reactions 8258
biochemistry, metabolism 1400
cereals
control 6626
cultural methods 5849
environmental factors 6626
isolates 822
manganese 6626
nucleotide sequences 822
set-aside 7440
UK 5849
*Cynodon dactylon*, detection 4283
molecular genetics, DNA probes 1931
*Pseudomonas fluorescens*, antagonism 5125
rice, detection 4283
*Stenotaphrum secundatum*, detection 4283
wheat
assessment 7452
biological control 853, 3549, 5163
biotechnology 6664
control 2603, 5160-5161, 6664
crop mixtures 6631
Czechoslovakia 1399
detection 4283
fertilizers 850, 8258
Germany 4311, 5163
intensive cropping 4311
models 7452
mulching 6638
rotations 2643, 3472, 3510, 7450
Saskatchewan 3472
testing 2020
tillage 2643, 3472, 3510
varietal reactions 2020, 8258
Victoria 3510
Washington 853, 6638
Western Australia 850
yield losses 1399, 7452
***Gaeumannomyces graminis* var. *graminis***
*Cynodon dactylon*, identification 5982

***Gaeumannomyces graminis* var. *graminis*** *cont.*
rice
Florida 4434
identification 5982
*Stenotaphrum secundatum*
Alabama 4860
California 6751
Florida 4860
identification 5982
*Zoysia japonica*, Illinois 3176
***Gaeumannomyces graminis* var. *maydis***, maize, taxonomy 5926
***Gaeumannomyces graminis* var. *tritici***
*Aegilops squarrosa*, breeding 6666
barley
sowing date 291
UK 291
wheat
biological control 273-274, 852, 5162, 6665, 8313-8314
breeding 6666
Chile 5159
control 2640, 8313
crop growth stage 5855
crop residues 5880
fertilizers 851
Poland 5855
rotations 5159
sowing 5880
UK 8313-8314
Victoria 5880
Western Australia 3548
zinc 3548
**Gallic acid**, control, *Alternaria raphani*, radishes 2869
**Gamma radiation**
activity
*Botrytis allii*, onions 5826
*Botrytis cinerea*, pears 5826
*Populus*, diseases 3971
***Ganoderma***
coconuts, detection 1099
oil palms
control 2311
Malaysia 2313, 2317
Papua New Guinea 2311
research 2317
spread 2313
tropical crops, characteristics 1305
***Ganoderma applanatum***
coconuts
control 1098
Kerala 1098
pathogenicity 7825
***Ganoderma boninense***
oil palms
control 2312, 2314-2315
environmental factors 2312
histopathology 1096
Malaysia 2312, 2314-2316
research 2316
***Ganoderma lucidum***
coconuts
control 1098
enzymes 7023
Kerala 1098
pathogenicity 7825
symptoms 528
Tamil Nadu 528
grapefruits
infection 2267
Texas 2267
*Macadamia*, decline 7814
oranges
infection 2267
Texas 2267
***Ganoderma mastoporum***
control
*Armillaria limonea*, *Pinus radiata* 7939
*Armillaria novae-zelandiae*, *Pinus radiata* 7939
***Ganoderma philippii***
*Hevea brasiliensis*
control 2371
Malaysia 2371
***Ganoderma pseudoferreum*** *(see Ganoderma philippii)*
***Garcinia livingstonei***, plant extracts, antifungal agents 7263
***Garcinia mangosana***, *Botryodiplodia theobromae*, Assam 3400
***Gardenia jasminoides***, viruses, ultrastructure 2402
**Garlic** (*Allium sativum*)
*Alternaria porri*
susceptibility 8507
varietal reactions 8507
*Botrytis allii*
symptoms 7663
Tamil Nadu 7663
*Corticium rolfsii*
symptoms 7663
Tamil Nadu 7663
diseases
control 6069
Poland 5305
USA 6069
*Fusarium equiseti*
symptoms 7663
Tamil Nadu 7663
*Fusarium oxysporum*
symptoms 7663
Tamil Nadu 7663
garlic latent virus
characteristics 6070
Shaanxi 2857
Taiwan 6070
garlic mosaic virus
detection 6839
Shaanxi 2857
plant extracts, antifungal agents 2813, 5694, 6999
*Sclerotium cepivorum*
Colombia 2859
control 2859, 3747
induced resistance 7661
soil solarization 4544
Spain 4544
ultrastructure 2862
tobacco mosaic tobamovirus, Shaanxi 2857
**Garlic latent virus**
garlic
characteristics 6070
Shaanxi 2857
Taiwan 6070
**Garlic mosaic virus**
garlic
detection 6839
Shaanxi 2857
***Gaultheria shallon***
fungi, biological control 5612
Pyrenomycetes, British Columbia 7988
***Gelatinosporium***
*Sequoia sempervirens*
endophytes 7107
USA 7107
***Gelineostroma swartii***
*Athrotaxis*
Tasmania 127
taxonomy 127
taxonomy, new species 127
***Genea hispidula***
taxonomy
Europe 6565
spores 6565
***Genea klotzschii***
Netherlands 1861
taxonomy 1861
Europe 6565
spores 6565
***Genea sphaerica***
taxonomy 1861
Europe 6565
spores 6565
***Genea verrucosa***
taxonomy 1861
Europe 6565
spores 6565
***Geniculosporium***
*Sequoia sempervirens*
endophytes 7107
USA 7107
***Geniculosporium serpens***, Himachal Pradesh 7356
***Geomyces pannorum***, control, *Pythium ultimum*, peat 746
***Geotrichum candidum***
cherries, storage 7752
***Geotrichum candidum*** *cont.*
citrus
Argentina 502
fungicide tolerance 4952
postharvest decay 502
storage 4667
*Litchi chinensis*, fungicide tolerance 4952
melons, fungicide tolerance 4952
pawpaws, storage 7807
potatoes
Belarus 405
fungicide tolerance 4952
storage 405
USSR 985
quinces
Jammu and Kashmir 8620
storage 8620
tomatoes
environmental factors 5337
fungicide tolerance 4952
storage 5337
***Geotrichum citri-aurantii***
citrus, Israel 2268
soil, Israel 2268
**Geraniol**, activity, *Alternaria solani* 8040
**Geraniums** *(see Pelargonium)*
***Gerbera***
*Botrytis cinerea*
epidemiology 6327
immunodiagnosis 6343
spore dispersal 6327
*Fusarium oxysporum* f.sp. *gerberae*, biological control 614
tomato spotted wilt tospovirus
Poland 5075
serology 5075
transmission 5075
***Gerbera jamesonii***, *Phytophthora cryptogea*, Japan 7963
**Germany**
*Abies alba*
decline 8805
seedborne fungi 8804
apples
*Podosphaera leucotricha* 1045
*Venturia inaequalis* 134, 7734
barley
brome mosaic bromovirus 862
diseases 134, 7484
*Erysiphe graminis* 2697
mycorrhizas 5727
*Pseudocercosporella herpotrichoides* 2628
*Berteroa incana*, turnip yellow mosaic tymovirus 1187
*Calendula officinalis*, *Puccinia lagenophorae* 7426
cereals, *Erysiphe graminis* 2627
*Chenopodium quinoa*, brome mosaic bromovirus 862
crops, diseases 218, 7431
cucumbers, *Pseudoperonospora cubensis* 134
*Didymella*, air spora 3356
Erysiphales, taxonomy 6556
*Fagus sylvatica*
acid deposition 8767
decline 4807, 7915
*Fusarium arthrosporioides* 4806
*Nectria coccinea* 8773
*Pythium ultimum* 4806
*Trichoderma* 3125
forests
air pollution 7088
decline 1693, 8748, 8750-8751, 8766
fruit, pesticide residues 2472
fungicides
registration 6419
testing 6419
*Fusarium*, air spora 3356
grapes
*Agrobacterium tumefaciens* 6192
*Botrytis cinerea* 6189
ozone 6971
*Plasmopara viticola* 2989
*Uncinula necator* 2989
hops
root rots 7160
viruses 7982
linseed, diseases 3045
maize, fungi 880

**Germany** *cont.*
oats
*Fusarium* 4375
*Gibberella* 4375
onions, *Sclerotium cepivorum* 4545
pesticides
legislation 3269, 8072-8073
usage 4074
*Picea abies*
acid deposition 8767
acid rain 8803
air pollution 1171, 5550
decline 1167, 1170, 1718, 4846, 6318, 8766
fungi 8800
*Heterobasidion annosum* 1167
*Nectria radicicola* 7120
ozone 1163
rhizosphere fungi 7120
stem rot 8801
sulfur dioxide 6321
*Trichoderma* 3125
*Trichoderma polysporum* 8799
*Pinus sylvestris*
air pollution 5550
mycorrhizas 7281
ozone 1163
plant diseases, legislation 2487, 3321
plant pathology, research 3224
plums, *Tranzschelia discolor* 6555
pome fruits, *Erwinia amylovora* 458
*Populus*, poplar mosaic carlavirus 1153
potatoes
*Fusarium solani* var. *coeruleum* 981
*Gibberella cyanogena* 981
*Phytophthora infestans* 134, 2841, 3719, 5292
*Synchytrium endobioticum* 2842, 7648
*Prunus*, mycoplasma-like organisms 1055
*Quercus petraea*
*Chalara ovoidea* 7911
decline 4801
*Ophiostoma piceae* 4801
*Quercus robur*
*Chalara ovoidea* 7911
decline 4801, 7093
*Ophiostoma piceae* 4801
rape
*Leptosphaeria maculans* 2296
*Pyrenopeziza brassicae* 1090
raspberries
*Phytophthora citricola* 2978
*Phytophthora fragariae* var. *rubi* 2978
viruses 4817
rye, *Monographella nivalis* 7494
*Saintpaulia ionantha*, disorders 3188
*Senecio vulgaris*, *Puccinia lagenophorae* 7426
soil
*Pythium cylindrosporum* 6551
*Trichoderma* 3125
*Sorbus aucuparia*, viruses 4817
sugarbeet, mycorrhizas 5727
trees, air pollution 7956
Uredinales, taxonomy 6556
Ustilaginales, taxonomy 6556
vegetables, pesticide residues 2472
*Vinca minor*, *Puccinia cribrata* 6555
water
pesticide residues 4940
viruses 788
wheat
diseases 134, 253, 4311, 7457
*Erysiphe graminis* 3539, 8308
*Fusarium* 4348
*Gaeumannomyces graminis* 5163
mycorrhizas 5727
*Mycosphaerella graminicola* 7472
*Pseudocercosporella herpotrichoides* 2628, 2681
*Puccinia recondita* 2002
wild plants, mycorrhizas 712-713
**Ghana**
cocoa, diseases 7873
coconuts, lethal yellowing 3062
**Gherkins** (*see* Cucumbers)
***Gibberella acuminata***
ice nucleation 6536
maize, culture media 7505
mulberries, Zhejiang 1588
***Gibberella acuminata*** *cont.*
*Phyllanthus emblica*
Jammu and Kashmir 6218
postharvest decay 6218
tomatoes
Jammu and Kashmir 8563
storage 8563
***Gibberella avenacea***
barley
Latvia 826
seeds 6636
carrots
Italy 4532
postharvest decay 4532
*Centaurea maculosa*, toxins 4896
cereals, seed germination 5852
faba beans, varietal reactions 3682
flax, biological control 5117
ice nucleation 6536
linseed
Germany 3045
seeds 6237
mulberries, Zhejiang 1588
oats
Germany 4375
Latvia 826
seeds 4375
*Senecio vulgaris*, secondary pathogens 7170
*Trifolium pratense*
insects 5236
mixed infections 3672
Nematoda 3669
roots 5236
screening 8419
varietal reactions 3672
West Virginia 5236
yield losses 3669
wheat
control 8323
crop growth stage 5855
epidemiology 8281
Italy 2648
Poland 5855
rotations 7450
seeds 6636
South Africa 1404
UK 8281, 8323
***Gibberella avenacea* var. *anguioides***, garlic, Poland 5305
***Gibberella baccata***
*Abutilon theophrasti*, biological control 3208
activity
*Leucostoma cinctum*, apricots 2971
*Pseudomonas syringae* pv. *syringae*, apricots 2971
control
*Eutypa lata*, grapes 8633
*Leucostoma cinctum*, apricots 2230
*Fraxinus excelsior*, UK 5538
mulberries, Zhejiang 1588
*Pseudotsuga menziesii*, Mexico 7123
***Gibberella cyanogena***
laboratory tests, fenpiclonil 5693
mulberries, Zhejiang 1588
potatoes
fungicide tolerance 981
Germany 981
***Gibberella fujikuroi***
asparagus
biological control 8528
Connecticut 8527, 8529
control 3760, 8526-8528
fertilizers 8527
France 3760
Italy 8523, 8533
Mexico 8526
Michigan 8529, 8534
New Zealand 430
Taiwan 8528
transmission 3760
USA 8526
varietal reactions 8523
vegetative compatibility groups 8529
*Bacillus subtilis*, antagonism 2062
bananas
control 494
postharvest decay 494
biochemistry, gibberellins 5014, 5762
*Canavalia*, seeds 6030
***Gibberella fujikuroi*** *cont.*
cotton
pathogenicity 3955
physiology 3115
seeds 3955
Shanxi 6280
culture media, plant growth regulators 5770
*Cycas revoluta*, Uttar Pradesh 609
*Datura stramonium*
biological control 1762
Mississippi 4897
toxins 4897
environmental factors 3365
figs
California 7788
virulence 7788
genetics, toxins 8156
groundnuts
Egypt 7032
seed treatment 7032
guavas, antagonists 5454
laboratory tests
antibiotics 6521
benomyl 6521
pefurazoate 3293, 3646
plant extracts 692, 2483, 4377, 6464
plant oils 8119
*Lemna minor*, toxins 6363
maize
antagonists 1419, 2062
biological control 1421, 5189
control 2714
culture media 7505
genetics 2061
Honduras 301
insects 5915
intercropping 2062
mixed infections 4394
pathogenesis-related proteins 5190, 6703
reviews 5189
seeds 2712, 2714, 5124, 5190
selection 3602
soil texture 2062
South Africa 5915
toxins 2065, 3602, 5189
vegetative compatibility groups 5124
Zhejiang 5188
molecular genetics
DNA 3424
genetic transformation 5013
nucleotide sequences 5019
pawpaws, storage 7807
physiology, enzymes 8150
protoplasts 5762
*Pseudotsuga menziesii*, Mexico 7123
rice
control 1456, 2736, 4432, 6711
elicitors 5207
fertilizers 3645
fungicide tolerance 1456
pathogenicity 3646
plant extracts 2733
seed treatment 6717
seeds 1456, 6712
safflower
Iran 7822
seeds 7822
*Salsola kali*
seeds 5124
vegetative compatibility groups 5124
serology 6558
soil
antagonists 1419
Michigan 8534
Patagonia 6675
soil bacteria, antagonism 1419
sorghum
genetics 7512, 8355
pathogenicity 308
resistance 5930
seeds 7511-7512
strains 308
varietal reactions 1442, 3618
sugarcane
control 8700
ecology 1111
interactions 1111
isolates 5483
pathogenicity 5483

***Gibberella fujikuroi*** *cont.*
*Terminalia ivorensis*
fruit 4819
Nigeria 4819
tomatoes, toxins 5338
toxins 4186
environmental factors 3372
Taiwan 3372
*Trichoderma lignorum*, antagonism 5454
wheat
detection 1989
Patagonia 6675
seeds 1989
***Gibberella fujikuroi* var. *intermedium***
cotton, China 8738
*Cycas revoluta*, Uttar Pradesh 609
mulberries, Zhejiang 1588
***Gibberella fujikuroi* var. *subglutinans***
bananas
control 494
postharvest decay 494
maize, mixed infections 7501
mangoes, mycoviruses 3878
*Phyllanthus emblica*
Jammu and Kashmir 6218
postharvest decay 6218
*Pinus taeda*
control 4839
insects 4839
North Carolina 4839
serology 6558
sugarbeet, toxins 7859
sugarcane
budding 4723
isolates 5483
pathogenicity 5483
varietal reactions 4723
***Gibberella gordonii***, activity, *Sclerotinia sclerotiorum*, *Phaseolus vulgaris* 1494
***Gibberella pulicaris***
cotton
pathogenicity 3955
seeds 3955
hops
Germany 7160
pathogenicity 7160
root rots 7160
molecular genetics
DNA 3363
genetic transformation 8153
nucleotide sequences 3363
potatoes
antagonists 2822
Belarus 397
biological control 397
pathogenicity 3728
phytoalexins 215, 3728
storage 2844, 3728
varietal reactions 2844
***Gibberella zeae***
activity, *Sclerotinia sclerotiorum*, *Phaseolus vulgaris* 1494
*Avena nuda*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
barley
breeding 3563
host parasite relationships 288
Japan 8260
Parana 5846
pathogenicity 6634
Rio Grande do Sul 5846
rotations 5846
testing 7442
varietal reactions 4300
yield losses 8260
cereals
New Zealand 3499
toxins 3499
cultures, chimaeras 4350
laboratory tests
choline chloride 4205
edifenphos 4205
plant extracts 4377, 8121
sesquiterpenoid lactones 4951
maize
biological control 1420
mixed infections 4394, 7501
pathogenicity 6634
phenolic compounds 4393

***Gibberella zeae*** *cont.*
maize *cont.*
plant age 5921
testing 5921
varietal reactions 1422, 2713, 4393, 5187, 8349
molecular genetics
genetic transformation 3383
nitrogen metabolism 3383
mulberries, Zhejiang 1588
oats
biological control 1379
Brazil 1379
Germany 4375
Parana 5846
plant residues 1379
Rio Grande do Sul 5846
rotations 5846
seeds 4375
pasture plants
New Zealand 3499
toxins 3499
rye
breeding 5908
testing 6691
soyabeans
biological control 1482
Brazil 1482
freezing 358
Iowa 358
plant residues 1482
seeds 358
sugarbeet, toxins 7859
*Trichoderma harzianum*, antagonism 4176
triticale, Moldova 875
wheat
Austria 6673
biological control 1379
Brazil 1379, 8283
breeding 5165-5166, 5883, 6669, 8319
China 5165
chloride 251
control 855, 1403, 2642, 6641, 6674, 8323
Croatia 3513
crop residues 280, 8283
DNA 2644
Egypt 6639
enzymes 4312
forecasting 277
genetics 2023
Hungary 6671
*in vitro* selection 854
inoculation 3555
inoculum 280
integrated control 1990
Italy 2648
Japan 8260
Kansas 2684
Manitoba 1402
Mexico 6641, 6674
Minnesota 251
Parana 5846
pathogenicity 2687, 6634
plant residues 1379
resistance 2686, 5167-5169
rhizosphere 2687
Rio Grande do Sul 5846
rotations 5846
Russia 3557
seeds 1402, 4312, 6671, 6674
selection 2683
Sichuan 277
somaclonal variation 5170
South Africa 280, 1404
survival 8283
testing 1401, 3555, 7442, 8320
toxins 855-856, 2686, 5167-5169, 6639, 6671, 8319-8320
UK 8323
USSR 255
varietal reactions 1401, 1403, 4300, 5171, 6673, 8322
vegetative compatibility groups 2684
yield losses 1402, 8260
**Gibberellic acid**, activity, *Alternaria alternata*, persimmons 3882
***Gibellina cerealis***, wheat, USSR 859
***Gigasperma cryptica***, taxonomy 709

***Gigaspora***
asparagus, mycorrhizas 8145
*Campomanesia coerulea*, mycorrhizas 2520
coffee, mycorrhizas 7310
electron microscopy 6488
mine spoil, mycorrhizas 1857, 5734
soil, mycorrhizas 4156, 8145
soyabeans, mycorrhizas 1863
***Gigaspora calospora***
*Eleusine coracana*, mycorrhizas 4994
maize, mycorrhizas 4146
peas, mycorrhizas 2519
***Gigaspora decipiens***, horticultural crops, mycorrhizas 7304
***Gigaspora heterogama***, pigeon peas, mycorrhizas 6483
***Gigaspora margarita***
avocados, mycorrhizas 1273
biochemistry, trehalose 3342
*Capsicum*, mycorrhizas 92
carrots, mycorrhizas 1862
*Eleusine coracana*, mycorrhizas 4994
*Eucalyptus camaldulensis*, mycorrhizas 93
inoculum 2521
laboratory tests, flavonols 5731
*Leucaena leucocephala*, mycorrhizas 4977, 4979
mangoes, mycorrhizas 1273
molecular genetics, DNA 1865
pawpaws, mycorrhizas 1273
pigeon peas, mycorrhizas 4975, 4984, 6483
***Gigaspora tuberculata***
characteristics 6492
Rajasthan 6492
***Gilmaniella humicola***, *Pleurotus ostreatus*, control 4018
**Ginger** (*see Zingiber officinale*)
***Ginkgo biloba***
*Fusarium*, China 8787
*Macrophomina phaseolina*, China 8787
***Gladiolus***
bean yellow mosaic potyvirus
corms 2412
detection 2412
cucumber mosaic cucumovirus
characteristics 5582
hosts 5582
***Gliocladium***
control, *Fusarium culmorum*, wheat 276
hyperparasitism, *Sclerotinia sclerotiorum* 7789
***Gliocladium catenulatum***, control, *Gibberella pulicaris*, potatoes 397
***Gliocladium pulicaris***, antagonism, potatoes, pathogens 397
***Gliocladium roseum***
antagonism
*Botrytis allii* 6072
*Pythium aphanidermatum* 100
*Rhizoctonia solani* 100
*Sclerotinia sclerotiorum* 740
*Sclerotinia squamosa* 6072
control
*Botrytis allii*, onions 4548
*Botrytis cinerea*, strawberries 478, 8629
damping off
cucumbers 228
lettuces 228
peas 228
fruit, storage decay 7428
*Fusarium culmorum*, barley 292
potatoes, storage decay 7428
immunodiagnosis 1690
***Gliocladium vermoesenii***, biochemistry, pyrones 7265
***Gliocladium virens***
antagonism
*Botrytis cinerea* 5000
*Corticium rolfsii* 5004
*Phytophthora megasperma* 5000
*Pythium ultimum* 5000, 5004
*Rhizoctonia solani* 5000, 5004
*Sclerotinia sclerotiorum* 8510
biochemistry, toxins 5004
control
*Corticium rolfsii*
chickpeas 232

***Gliocladium virens*** *cont.*
control *cont.*
*Corticium rolfsii cont.*
groundnuts 232
lentils 232
*Fusarium*, sesame 1107
*Fusarium oxysporum*
chickpeas 232
groundnuts 232
lentils 232
*Pythium*, sesame 1107
*Pythium ultimum*
cucumbers 4603
peat 746
*Rhizoctonia solani*
*Agrostis stolonifera* var. *palustris* 1728
chickpeas 232
groundnuts 232
lentils 232
rice 7554
cotton, inoculum 3113
culture media 4174
physiology
antibiotics 5000
enzymes 5000
production, antibiotics 6460
soil
inoculum 3113
isolation 8169
***Gliricidia sepium***
*Gigaspora*
mycorrhizas
growth 4985
nitrogen fixation 4985
*Glomus mosseae*
mycorrhizas
growth 4985
nitrogen fixation 4985
plant extracts, antifungal agents 5698
**Globe artichokes** (*Cynara scolymus*)
artichoke latent potyvirus, yield losses 6085
bacteria, Italy 3486
broad bean wilt fabavirus, yield losses 6085
***Globodera***, interactions, *Verticillium* 3475
***Gloeocercospora sorghi***
molecular genetics
enzymes 8163
nucleotide sequences 8163
sorghum
Tanzania 4404
varietal reactions 1441, 3609
***Gloeodes pomigena***
apples
control 3819, 6914, 7732
Himachal Pradesh 7732
North Carolina 6914
rain 6914
USA 3819
***Gloeophyllum sepiarium***, India 7358
***Gloeophyllum trabeum***
biochemistry, enzymes 2537
*Pinus taeda*, control 3986
***Gloeosporium***
*Hevea brasiliensis*, Sri Lanka 578
*Rubus*, Colombia 4633
strawberries
Colombia 4638
control 4638
***Gloeosporium limetticola***
citrus, Indian Punjab 4669
limes
control 6990
Mexico 6990
***Gloeosporium musarum*** *(see Colletotrichum musae)*
***Gloeosporium psidii***
laboratory tests, homeopathic drugs 6511
spore germination 6512
***Gloeosporium quercinum***, *Quercus robur*, insects 7092
***Gloeosporium ribis***, black currants, France 6168
**Glomales**, nomenclature 3347
***Glomerella***
genetics, reviews 6532
maize
isolates 824
molecular genetics 824
***Glomerella*** *cont.*
sexual reproduction, reviews 6532
sorghum
isolates 824
molecular genetics 824
taxonomy, reviews 6564
***Glomerella cingulata***
*Acanthus ilicifolius*, West Bengal 8843
*Aeschynomene virginica*, biological control 5619
*Alnus*, Iran 1707
*Amomum villosum*
Guangxi 8824
hosts 8824
symptoms 8824
apples
control 3819, 4036
Malawi 4036
USA 3819
*Asystasia gangetica*, Singapore 4003
*Asystasia nemorum*, Singapore 4003
*Averrhoa carambola*, Taiwan 6219
avocados
characteristics 3004
control 3884
DNA 3865
latent infections 7005
phytoalexins 7003
postharvest decay 3884, 4658
resistance 4658
variation 3865
bananas
characteristics 3004
DNA 3865
variation 3865
biochemistry, lysis 1870
blackberries, Venezuela 7764
*Camellia*
control 2403
grafting 2403
*Camellia sasanqua*, control 607
*Capsicum*
China 6124
control 7701
cherries
control 6160
Yugoslavia 6160
citrus
characteristics 2265
control 7800
culture media 1604
environmental factors 6988
enzymes 3876, 4675
Florida 2265, 6988
inoculum 6988
pathogenicity 2265
strains 1604, 2265, 3876
cloves, control 3197
cocoa
Indonesia 2342
yield losses 2342
coffee
Africa 6269, 7050
Angola 5491
control 4734, 5490, 6268
fungicide tolerance 6268, 7864
Kenya 4734, 5490-5491, 6268, 7864
Malawi 5491
races 5491
reviews 1653
*Coriandrum sativum*
susceptibility 4880
toxins 3198
cotton
detection 7894
quarantine 7894
seeds 7894
Tamil Nadu 8739
varietal reactions 8739
crops
epidemiology 6617
reviews 6617
Tropics 6617
*Dalbergia sissoo*, seeds 1159
*Diospyros melanoxylon*, Madhya Pradesh 4824
*Ficus infectoria*, Sikkim 8769
*Ficus religiosa*
control 8781
Madhya Pradesh 8781
***Glomerella cingulata*** *cont.*
grapefruits
environmental factors 7796
Florida 7796
spread 7796
grapes
China 2252
screening 2252
guavas
Bangladesh 1615
control 1615
*Hevea brasiliensis*
control 1144
Malaysia 6285
São Paulo 5526
seeds 2369
symptoms 1144
laboratory tests
homeopathic drugs 6511
prochloraz 2463
quinconazole 2463
limes
control 8649
strains 2264
mangoes
biological control 4680
control 5449, 6999-7000, 7801
dieback 3022
DNA 3865
enzymes 1082, 5449
fungicide residues 6999
genetic variation 7802
Guam 1609
Himachal Pradesh 3022
insects 1609
Philippines 4680
postharvest decay 4658, 4680, 5449
Rajasthan 5449
resistance 4658
South Africa 7801
variation 3865
molecular genetics
DNA 1929, 3865
isolates 1929
nucleotide sequences 8154
restriction fragment length polymorphism 3865
olives, control 7826
oranges
control 5441
environmental factors 7796
Florida 5441, 7796
spread 7796
strains 2264
*Passiflora ligularis*, Colombia 3036
pawpaws
characteristics 3004
control 3037
DNA 3865
postharvest decay 7806
storage 3037
variation 3865
pears
environmental factors 5399
Honshu 6934
pecans
Alabama 4693
control 4693-4694
Georgia 4694
*Populus deltoides*, Karnataka 4794
*Pteris longifolia*, Assam 3400
*Quamoclit vulgaris*, Assam 3400
*Smilax macrophylla*, Assam 3400
spore germination 6512
strawberries
control 1591, 7770-7771
Florida 7770
genetic variation 7776
genetics 476
Honshu 5423
infection 1591
Kyushu 1590
taxonomy 7768
*Stylosanthes*
Africa 6759
Australia 6759
isolates 6759
Latin America 6759
molecular genetics 6758
South East Asia 6759

***Glomerella cingulata*** *cont.*
*Stylosanthes guianensis*
chitinase 4463
induced resistance 4463
molecular genetics 4462
Queensland 4462
*Stylosanthes scabra*, models 2097
*Tephrosia candida*, Assam 3400
*Thymus*
Austria 5609
Spain 5609
tomatoes, ethylene 8550
tropical fruits, isolates 6974
*Vitis*
China 2252
screening 2252
weeds
biological control 6368
China 6368
yams
Assam 2414
symptoms 4535
***Glomerella glycines***
soyabeans
biological control 1482
Brazil 1482
plant residues 1482
***Glomerella musae***
taxonomy
genetics 2542
mating types 2542
***Glomerella tucumanensis***
laboratory tests, quinone fungicides 5696
sugarcane
control 1109
culture 3911
ecology 1111
interactions 1111
Nematoda 5482
Nigeria 5482
phytoalexins 2331
plant extracts 3910
reviews 1644
Tamil Nadu 2328
varietal reactions 2328, 3909, 3912, 5482
yield losses 5482
variation 5696
***Glomus***
*Acacia farnesiana*, mycorrhizas 4982
asparagus, mycorrhizas 8145
barley, mycorrhizas 5727
biochemistry
carbon 4166
nitrogen 4166
control, *Pythium ultimum*, cucumbers 450
cucumbers, mycorrhizas 450
*Dioon edule*, mycorrhizas 4987
*Gliricidia sepium*, mycorrhizas 4985
Gramineae, mycorrhizas 1266
groundnuts, mycorrhizas 5737
kiwifruits, mycorrhizas 1860
leeks, mycorrhizas 3339, 4159, 4169
Leguminosae, mycorrhizas 2524
*Leucaena esculenta*, mycorrhizas 3344
maize, mycorrhizas 1272
mine spoil, mycorrhizas 1857, 5734
*Panicum amarum*, mycorrhizas 4149
pastures, mycorrhizas 97
*Phaseolus vulgaris*, mycorrhizas 5723
*Platanus acerifolia*, mycorrhizas 4159
*Populus deltoides*, mycorrhizas 4976
soil, mycorrhizas 4156, 4983, 6486, 8145
sorghum, mycorrhizas 6486
soyabeans, mycorrhizas 96, 1272, 1863, 6486
strawberries, mycorrhizas 3341
sugarbeet, mycorrhizas 5727
taxonomy, reviews 4151
*Trifolium repens*, mycorrhizas 2514
*Trifolium subterraneum*, mycorrhizas 8142
*Uniola paniculata*, mycorrhizas 4149
*Welwitschia mirabilis*, mycorrhizas 6489
wheat, mycorrhizas 5727
***Glomus aggregatum***
*Leucaena leucocephala*, mycorrhizas 94, 2522
rice, mycorrhizas 6497
*Sesbania grandiflora*, mycorrhizas 4986
soil, mycorrhizas 7303
***Glomus aggregatum*** *cont.*
*Trifolium pratense*, mycorrhizas 722
***Glomus albidum***, *Stipa pulchra*, mycorrhizas 4993
***Glomus ambisporum***, soil, mycorrhizas 7303
***Glomus caledonium***
*Eleusine coracana*, mycorrhizas 4994
horticultural crops, mycorrhizas 7304
rice, mycorrhizas 1852
***Glomus citricolum***, *Poncirus trifoliata*, mycorrhizas 4142
***Glomus claroideum***, soil, mycorrhizas 5735
***Glomus clarum***
*Acacia albida*, mycorrhizas 2527
*Acacia nilotica*, mycorrhizas 2527
avocados, mycorrhizas 1273
mangoes, mycorrhizas 1273
pawpaws, mycorrhizas 1273
rice, mycorrhizas 6497
***Glomus deserticola***, *Stipa pulchra*, mycorrhizas 4993
***Glomus etunicatum***
*Anthyllis cytisoides*, mycorrhizas 6484
biochemistry, trehalose 3342
cowpeas, mycorrhizas 8136
*Hedysarum*, mycorrhizas 1851
horticultural crops, mycorrhizas 7304
inoculum 2521
kiwifruits, mycorrhizas 1262
laboratory tests, flavonols 5731
*Leucaena leucocephala*, mycorrhizas 4977
maize, mycorrhizas 4157-4158, 4161
pigeon peas, mycorrhizas 6483
*Piper nigrum*, mycorrhizas 3338
plants, mycorrhizas 5717
rice, mycorrhizas 1852
sunflowers, mycorrhizas 4157-4158
sweet potatoes, mycorrhizas 7298
*Vigna parkeri*, mycorrhizas 4989
***Glomus fasciculatum***
*Anthyllis cytisoides*, mycorrhizas 2523, 6484
asparagus, mycorrhizas 8537
avocados, mycorrhizas 8137
*Brachypodium retusum*, mycorrhizas 2523
*Capsicum*, mycorrhizas 92, 717-718, 4144
cowpeas, mycorrhizas 8136
cucumbers, mycorrhizas 5733
*Eleusine coracana*, mycorrhizas 4994
*Hedysarum*, mycorrhizas 1851
kiwifruits, mycorrhizas 1859
lettuces, mycorrhizas 1264
*Leucaena leucocephala*, mycorrhizas 6493
maize, mycorrhizas 4146, 4990
pigeon peas, mycorrhizas 4150
*Piper nigrum*, mycorrhizas 3338
potatoes, mycorrhizas 3334, 4148
rice, mycorrhizas 1852, 6497
soil, mycorrhizas 5735
*Striga hermonthica*, biological control 7295
tobacco, mycorrhizas 711, 723
tomatoes, mycorrhizas 1016
wheat, mycorrhizas 278
***Glomus fuegianum***, ultrastructure 4996
***Glomus geosporum***
soil, mycorrhizas 5735, 7303
*Stipa pulchra*, mycorrhizas 4993
***Glomus globiferum***, *Uniola paniculata*, mycorrhizas 6487
***Glomus glomerulatum***, horticultural crops, mycorrhizas 7304
***Glomus hoi***, soil, mycorrhizas 5735
***Glomus intraradices***
*Alnus acuminata*, mycorrhizas 2506
*Avena fatua*, mycorrhizas 4165
avocados, mycorrhizas 1273
biochemistry, trehalose 3342
Caryophyllaceae, mycorrhizas 1267
cashews, mycorrhizas 8134
coffee, mycorrhizas 7310
cowpeas, mycorrhizas 3351
Leguminosae, mycorrhizas 8141
*Leucaena leucocephala*, mycorrhizas 4980
*Lotus corniculatus*, mycorrhizas 2528
lucerne, mycorrhizas 2518, 2528
***Glomus intraradices*** *cont.*
maize, mycorrhizas 2504
mangoes, mycorrhizas 1273
pawpaws, mycorrhizas 1273
*Phaseolus vulgaris*, mycorrhizas 3340
rice, mycorrhizas 2507
roses, mycorrhizas 3353
rough lemons, mycorrhizas 4160
soil, mycorrhizas 3345, 5735
Solanaceae, mycorrhizas 1267
sour oranges, mycorrhizas 2516, 4160
tobacco, mycorrhizas 723
tomatoes, mycorrhizas 5730
*Trifolium alexandrinum*, mycorrhizas 6485
*Vigna radiata*, mycorrhizas 8134
***Glomus lamellosum***
*Ammophila breviligulata*, mycorrhizas 726
soil, mycorrhizas 726
***Glomus leptotichum***
control, *Rhizoctonia solani*, tomatoes 438
tomatoes, mycorrhizas 438
***Glomus macrocarpum***
*Anthyllis cytisoides*, mycorrhizas 6484
*Capsicum*, mycorrhizas 92, 717-718, 4144, 5736
coffee, mycorrhizas 7310
dunes, mycorrhizas 1858
*Festuca arundinacea*, mycorrhizas 3348
Gramineae, mycorrhizas 3343
*Hedysarum*, mycorrhizas 1851
Italy 3346
jute, mycorrhizas 4145
kiwifruits, mycorrhizas 1859
*Leucaena leucocephala*, mycorrhizas 4168
maize, mycorrhizas 4146
*Pennisetum americanum*, mycorrhizas 3348
rough lemons, mycorrhizas 4160
*Sesbania sesban*, mycorrhizas 4168
sour oranges, mycorrhizas 4160
***Glomus manihotis***
*Acanthocereus colombianus*, mycorrhizas 5724
*Selenicereus magalanthus*, mycorrhizas 5724
sorghum, mycorrhizas 1850
wheat, mycorrhizas 1850
***Glomus microcarpum***
horticultural crops, mycorrhizas 7304
Italy 3346
rice, mycorrhizas 1852
***Glomus monosporum***, kiwifruits, mycorrhizas 1859
***Glomus mosseae***
*Acacia nilotica*, mycorrhizas 5732
activity, grapes, iron 3862
*Anthyllis cytisoides*, mycorrhizas 6484
coffee, mycorrhizas 7310
control, apples, replant disease 460
*Eleusine coracana*, mycorrhizas 4994
*Elymus repens*, mycorrhizas 4170
*Festuca arundinacea*, mycorrhizas 3348
*Gliricidia sepium*, mycorrhizas 4985
grapes, mycorrhizas, iron 3862
*Hedysarum*, mycorrhizas 1851
inoculum 2521
Leguminosae, mycorrhizas 2524, 8141
*Leucaena leucocephala*, mycorrhizas 4979
maize, mycorrhizas 95, 1271, 4146, 4157-4158
*Nicotiana sylvestris*, mycorrhizas 4772
onions, mycorrhizas 5729
*Pennisetum americanum*, mycorrhizas 3348
pigeon peas, mycorrhizas 2529
rice, mycorrhizas 1852
saprophytic fungi, interactions 2512
soil, mycorrhizas 7303
soyabeans, mycorrhizas 3351, 8138
spore germination 2512
sunflowers, mycorrhizas 4157-4158
tobacco, mycorrhizas 8140
*Trichoderma*, interactions 2512
*Trifolium pratense*, mycorrhizas 722, 4147
*Trifolium repens*, mycorrhizas 4170, 4992

***Glomus mosseae*** *cont.*
ultrastructure
nuclei 719
peridia 1263
*Vigna radiata*, mycorrhizas 95
wheat, mycorrhizas 2529
***Glomus occultum***
kiwifruits, mycorrhizas 1859
*Trifolium pratense*, mycorrhizas 7300
***Glomus pallidum***
cowpeas, mycorrhizas 8135, 8139
maize, mycorrhizas 4157-4158
sunflowers, mycorrhizas 4157-4158
***Glomus tortuosum***, horticultural crops, mycorrhizas 7304
***Glomus versiforme***
*Anthyllis cytisoides*, mycorrhizas 6484
chickpeas, mycorrhizas 1864
*Eleusine coracana*, mycorrhizas 4994
*Hedysarum*, mycorrhizas 1851
leeks, mycorrhizas 3339
*Leucaena esculenta*, mycorrhizas 3344
lucerne, mycorrhizas 2518
maize, mycorrhizas 1853, 2517
molecular genetics, DNA 1865
soyabeans, mycorrhizas 1853
tobacco, mycorrhizas 723
ultrastructure, nuclei 719
***Glomus vesiculiferum***, maize, mycorrhizas 2504
**β-Glucanase**, activity, *Trichoderma longibrachiatum* 3355
***Glycine max*** (*see* Soyabeans)
***Glycine tomentella***
*Phakopsora pachyrhizi*
Australia 2103
genetics 2103
varietal reactions 2103
***Glycyrrhiza glabra*** (*see* Liquorice)
**Glyphosate**
activity
*Fusarium solani* f.sp. *pisi* 3693
*Pythium ultimum* 3693
control, *Ceratocystis fimbriata* f.sp. *platani*, *Platanus* 3978
***Gnetum montanum***
*Meliola gneticola*
China 5781
taxonomy 5781
***Gnomonia***, *Acer pseudoplatanus*, varietal reactions 3122
***Gnomonia erythrostoma***
apricots, Czechoslovakia 2229
cherries
control 7751
rain 7751
Spain 7751
***Gnomonia leptostyla***
walnuts
Italy 514
varietal reactions 8663
Yugoslavia 8663
***Gonatobotrys ramosa***, sorghum, culture media 5931
***Gossypium*** (*see* Cotton)
**Grain legumes**
diseases
books 1198
India 2099
quarantine 924
varietal reactions 2099
**Gram** (*see* Chickpeas)
**Gramineae** (*see also* Grasses)
*Acremonium*
detection 8403
life cycle 8403
molecular genetics 8411
reviews 8413
taxonomy 8403
toxins, reviews 8406
*Acremonium coenophialum*, Japan 3661
*Acremonium lolii*, Japan 3661
barley yellow dwarf luteovirus, Japan 3661
endophytes
diseases 8409
ecology 8404
evolution 8404
genetics 8404
insects 8409
Nematoda 8409

**Gramineae** *cont.*
endophytes *cont.*
toxins 8405
*Epichloë*, molecular genetics 8411
*Erysiphe graminis*, varietal reactions 5856
geminiviruses
Australia 927
serology 927
*Glomus*, mycorrhizas, lifespan 1266
*Glomus macrocarpum*, mycorrhizas, inoculum 3343
maize dwarf mosaic potyvirus
host range 4250
Venezuela 4250
maize streak monogeminivirus, histopathology 3487
mycorrhizas
ecology 2515
Oregon 2515
*Puccinia recondita*, varietal reactions 5856
*Puccinia striiformis*, varietal reactions 5856
*Pyrenophora tritici-repentis*
Kazakhstan 2624
morphology 2624
taxonomy 2624
USSR 2624
sugarcane mosaic potyvirus, hosts 5480
***Graminella nigrifrons***, transmission, maize chlorotic dwarf ribotungrovirus 2707, 6695, 7499
**Grand fir** (*see Abies grandis*)
**Grapefruits** (*Citrus paradisi*)
citrus ringspot virus, characteristics 6203
citrus tristeza closterovirus
Argentina 6983
induced resistance 3012
isolates 3012
South Africa 3012
varietal reactions 6983
*Diaporthe citri*, Texas 2266
*Ganoderma lucidum*
infection 2267
Texas 2267
*Glomerella cingulata*
environmental factors 7796
Florida 7796
spread 7796
*Penicillium digitatum*
induced resistance 6207
postharvest decay 6207
*Penicillium ulaiense*
California 6989
postharvest decay 6989
*Phytophthora nicotianae* var. *parasitica*
Florida 7798
models 7798
phenology 7798
plant extracts, antifungal agents 6188
storage decay, control 3875
tumours
control 496
Cuba 496
*Xanthomonas campestris* pv. *citri*
bacteriophages 6212
detection 6212
epidemiology 506
models 506
Taiwan 6212
yeasts
Argentina 502
postharvest decay 502
**Grapes** (*Vitis* spp.)
*Agrobacterium tumefaciens*
control 2258, 2998, 5428
enzymes 6193
Germany 6192
host parasite relationships 488, 7787
immunodiagnosis 7786
Italy 6192
molecular genetics 6193
rootstocks 6192
South Africa 4653
strains 3861
Switzerland 6192
testing 8636
varietal reactions 8636
virulence 6193
yield losses 4653

**Grapes** *cont.*
arabis mosaic nepovirus, detection 3853
*Ascochyta*
control 6970
Mexico 6191, 6970
*Botrytis cinerea*
Australia 482
biochemistry 6183
biological control 6187
control 482, 2254, 2992, 2994, 4649, 5427, 6969, 7784, 8095
defoliation 2993
enzymes 4650, 6181-6182
experimental design 1072
forecasting 225
fungicide tolerance 6189-6190
Germany 6189
histology 6183
host parasite relationships 4650, 6182
integrated control 5833
Japan 6190
models 1072
phytoalexins 6182, 6186
plant extracts 6188
postharvest decay 2255, 2992, 5427
reviews 6968
screening 6185-6186
storage 2254, 7784
toxins 6185
varietal reactions 6183-6184
vectors 2995
Virginia 2993
winemaking 2255
chlorosis
control 1074
Republic of Georgia 1074
*Cristulariella moricola*, Georgia 8635
dichlofluanid, fungicide residues 7257
diseases
biological control 815
books 4642
China 2252
control 1592, 1594, 2987, 3857
cultural methods 6955
Czechoslovakia 3857
defoliation 2993
Europe 8630
extension 7782
information 6139
integrated control 456, 2982, 4641, 5386, 6139, 8630
integrated pest management 481
Italy 456, 6139, 6955
phenolic compounds 7781
quarantine 1065
resistance 7781
Romania 1592
Santa Catarina 1066
screening 2252
spraying equipment 2982
sustainability 2251
temperature 2246
Turkey 7782
Virginia 2993
disorders, symptoms 2981
*Elsinoë ampelina*
Australia 482
control 482, 1073, 8634
Indian Punjab 8634
Maharashtra 2996
Tamil Nadu 1073
varietal reactions 2996
*Eutypa lata*
biological control 8633
control 2997, 4652
cytology 486
epidemiology 3860
France 3860, 4652
lignocellulose 487
pruning 4652
flavescence dorée
control 4646
detection 1068
elimination 483
mycoplasma-like organisms 483, 1068, 2249, 4646, 6175
New York 6175
Switzerland 2249
transmission 4646
vectors 2249, 6175
fungicide residues 76

**Grapes** *cont.*
fungicide residues *cont.*
determination 7246
Italy 6179
Maharashtra 2253
soil 6962
wine 6962
*Glomus mosseae*, mycorrhizas, iron 3862
grapevine chrome mosaic nepovirus, indicator plants 6958
grapevine fanleaf nepovirus
elimination 4643
immunodiagnosis 484, 6959
Italy 8631
transmission 1067
varietal reactions 6960
vectors 8631
grapevine fleck virus, juice quality 1069
grapevine labile rod-shaped virus
characteristics 4645
Italy 4645
grapevine leafroll associated closterovirus
juice quality 1069
ultrastructure 1071
grapevine stem pitting associated closterovirus
coat proteins 6174
detection 2580, 3854
DNA probes 485
serology 2580, 6174
ultrastructure 1071
*Guignardia bidwellii*
culture 2256
forecasting 225
perithecia 2256
iron, deficiency, control 3862
leafroll
California 5425
growth 5425
symptoms 6177
mycoplasma-like organisms
Egypt 6957
epidemiology 6956
India 6973
Italy 6956
research 6973
transmission 3855
vectors 6956
ozone
control 6971
Germany 6971
symptoms 6971
pesticide residues
legislation 7215
wines 7215
*Phomopsis longiparaphysata*
Taiwan 2257
taxonomy 2257
*Phomopsis viticola*
Australia 482
control 482, 4651
Greece 4651
plant oils, antifungal agents 4611
*Plasmopara viticola*
Australia 482
control 482, 2986, 2990, 6961, 6964
environmental factors 6180
enzymes 6963
forecasting 225, 2989, 2991
genetics 3858
Germany 2989
host parasite relationships 6963
Italy 2990, 6180
overwintering 6180
reviews 6965
screening 3858
soil water 4647
spore germination 4647
varietal reactions 4648
storage decay, control 2988
tomato black ring nepovirus, indicator plants 6958
tomato ringspot nepovirus
Egypt 2247
immunodiagnosis 484
tomato spotted wilt tospovirus
infection 5424
Ontario 5424
*Trichothecium roseum*
Indian Punjab 3859
varietal reactions 3859

**Grapes** *cont.*
*Uncinula necator*
Australia 482
control 482, 2986, 4651, 6961, 6966
forecasting 2989
fungicide tolerance 7783
Germany 2989
Greece 4651
Mexico 6966
New Zealand 7783
population dynamics 5426
reviews 6967
sulfur dioxide 5834
sustainability 2251
temperature 5426
viroids
Australia 1070
California 1070
detection 2984, 6178
nomenclature 1070
Portugal 2984
Taiwan 6178
viruses
Bulgaria 4644
certification 7780
collections 2983
elimination 1593, 2248, 7779
grafting 1593
Hungary 7780
India 6973
Malta 7778
pruning 6176
research 6973
symptoms 2981
testing 2250
transmission 8632
*Xanthomonas campestris* pv. *viticola*
control 2999
environmental factors 2999
fatty acids 4654
inoculation 1596
Maharashtra 4654
screening 7785
*Xylella fastidiosa*
elimination 6194
tissue culture 6194
yellows
Italy 2985, 3856
mycoplasma-like organisms 2985, 3856, 6175
New York 6175
transmission 3856
vectors 6175
**Grapevine (Algerian) latent tombusvirus,** water, Germany 788
**Grapevine chrome mosaic nepovirus**
grapes
characteristics 7780
Hungary 7780
indicator plants 6958
molecular genetics
proteins 5059
RNA 5059
tobacco
coat proteins 3939
genetic transformation 3939
resistance 3939
**Grapevine fanleaf nepovirus**
*Chenopodium quinoa*
immunodiagnosis 5066
satellite RNA 5066
detection 7409
grapes
Bulgaria 4644
elimination 4643
immunodiagnosis 484, 6959
Italy 8631
transmission 1067, 8632
varietal reactions 6960
vectors 8631
molecular genetics
coat proteins 801, 1343
gene expression 801
nucleotide sequences 1343, 8221
RNA 5083
satellite RNA 5077
**Grapevine fleck virus,** grapes, juice quality 1069
**Grapevine labile rod-shaped virus**
grapes
characteristics 4645

**Grapevine labile rod-shaped virus** *cont.*
grapes *cont.*
Italy 4645
**Grapevine leafroll associated closterovirus**
grapes
Bulgaria 4644
juice quality 1069
ultrastructure 1071
**Grapevine line pattern virus**
grapes
characteristics 7780
Hungary 7780
**Grapevine stem pitting associated closterovirus**
grapes
Bulgaria 4644
coat proteins 6174
detection 2580, 3854
DNA probes 485
serology 2580, 6174
ultrastructure 1071
*Nicotiana benthamiana*, DNA probes 485
***Graphium***
*Picea abies*
insects 7118
Norway 3159, 7118
succession 3159
*Pinus strobus*, pathogenicity 8788
**Grasses** (*see also* Gramineae)
*Acremonium*, distribution 1469
Balansieae, taxonomy 776
barley yellow dwarf luteovirus
Morocco 3495
reservoir hosts 3495
transmission 3495
mycorrhizas
Kansas 4163
phenology 4163
mycotoxins, New Zealand 8397
*Xanthomonas*, taxonomy 6412
**Grasslands**
mycorrhizas
ecology 8143
growth 8144
nutrient uptake 8144
phosphorus 4162
roots 4162
slurry 1261
UK 1261
**Greece**
*Carduus pycnocephalus*, diseases 2421
dunes, mycorrhizas 1858
faba beans, artichoke yellow ringspot nepovirus 943
figs, *Pleurotus cystidiosus* 490
grapes
*Phomopsis viticola* 4651
*Uncinula necator* 4651
hazelnuts, *Pseudomonas syringae* pv. *avellanae* 6229
kiwifruits, *Cochliobolus spicifer* 5429
olives, *Verticillium dahliae* 7026
*Pinus halepensis*, mycorrhizas 1858
plant diseases, control 4288
roses, *Botrytis cinerea* 5832
sugarbeet
beet mosaic potyvirus 4728
cucumber mosaic cucumovirus 4728
tomatoes
big bud 4572
*Botrytis cinerea* 5832
*Verticillium dahliae* 2192
**Green gram** (*see Vigna radiata*)
**Green manures**
activity
*Fusarium oxysporum* f.sp. *dianthi*
carnations 3184
soil 3184
**Greengages** (*see* Plums)
**Greenhouse crops**
*Botrytis cinerea*
biological control 3470
control 5827, 5831
epidemiology 5827
fungicide tolerance 5831
Turkey 5831
diseases
integrated control 6594, 6601
subtropics 6594
*Erwinia carotovora* subsp. *carotovora*
host range 6398

**Greenhouse crops** *cont.*
*Erwinia carotovora* subsp. *carotovora* *cont.*
hydroponics 6398
pesticides, application 5676
**Greenland,** *Betula nana, Myrothecium groenlandicum* 7907
***Gremmeniella abietina***
*Pinus*
high altitude 3152
Norway 3152
*Pinus sylvestris*
Finland 7111
growth 7111
life cycle 4842
nutrient deficiencies 1165
resistance 1165
Sweden 4842
***Grevillea robusta***
*Botryodiplodia theobromae*
insects 7928
Karnataka 7928
***Grifola umbellata,*** *Armillaria mellea,* symbiosis 5768
**Groundnut bud necrosis virus**
groundnuts
characteristics 8203
India 8203
tomatoes
characteristics 8203
Taiwan 8203
watermelons
characteristics 8203
Taiwan 8203
**Groundnut rosette virus,** groundnuts, temperature 2322
**Groundnuts** (*Arachis hypogaea*)
aflatoxins
bibliographies 7831
books 7831
*Alternaria alternata*
breeding 7839
varietal reactions 7839
*Alternaria tenuissima,* physiology 8685
*Ascochyta,* Cuba 6251
*Aspergillus*
detection 7033
drought 5478
resistance 4717
seeds 4717, 7033, 8691
storage 8691
toxins 7033
Uganda 5478
varietal reactions 5478
*Aspergillus flavus*
aflatoxins 3907
Alabama 7028
biological control 2325
control 5119, 6246, 7836
enzymes 2325
insects 6246
irrigation 7836
screening 4714
seeds 3907, 5474, 7836
soil water 3905
storage 5119
toxins 5472, 6246, 7028, 7836
varietal reactions 4714, 5474
vectors 7028
*Aspergillus niger*
control 3904, 7836, 8690
irrigation 7836
pathogenicity 8690
plant anatomy 6247
seeds 7836
toxins 7836
varietal reactions 6247
West Bengal 8690
*Aspergillus ochraceus*
control 5119
storage 5119
*Aspergillus parasiticus*
biological control 3066
control 6246
insects 6246
lipids 4271
seeds 4271
toxins 3066, 4271, 6246
*Aspergillus terreus,* soil water 3905
*Botrytis cinerea,* São Paulo 3908

**Groundnuts** *cont.*
*Corticium rolfsii*
Alabama 1102
biological control 232
control 1102, 3070, 3072
Georgia 3070
India 232
Madhya Pradesh 3069
Orissa 5476
rotations 3903
sclerotia 5476
survival 5476
symptoms 3069
Texas 8688
tillage 1100
varietal reactions 8688
yield losses 1102
*Didymosphaeria arachidicola*
characteristics 8684
Korea Republic 8683
varietal reactions 8683
diseases
control 5470, 7829, 8695
genetic resources 8244
genetics 3901
integrated control 5469
Southern Africa 5470
USA 8695
Virginia 5469
fungi
Georgia 8693
varietal reactions 8693
fungicide residues
environmental factors 7029
models 7029
*Fusarium oxysporum*
biological control 232
India 232
*Gibberella fujikuroi*
Egypt 7032
seed treatment 7032
*Glomus,* mycorrhizas, pesticides 5737
groundnut bud necrosis virus
characteristics 8203
India 8203
groundnut rosette virus, temperature 2322
*Leptosphaerulina crassiasca*
host parasite relationships 7837
infection 7837
*Mycosphaerella*
Andhra Pradesh 1637
control 1637
Karnataka 1637
*Mycosphaerella arachidis*
biological control 8694
breeding 3902
control 529, 3073
genetic resources 3067
irrigation 7030
life tables 7035
Meghalaya 4713
North Carolina 8687
reviews 6250
screening 8687
Sierra Leone 529
sodium 7030
survival 7034
varietal reactions 4713, 7842, 8682
Virginia 8687
yield losses 529
*Mycosphaerella berkeleyi*
Alabama 8692
breeding 7839
control 529, 3070, 3072-3073, 7031, 7841
forecasting 8692
genetic resources 3067
Georgia 3070
hyperparasites 1638
intercropping 7830
life tables 7035
models 8692
physiology 4716
reviews 6250
screening 5477
Sierra Leone 529
survival 7034
Swaziland 5477
toxins 4716
varietal reactions 7839
Virginia 1638

**Groundnuts** *cont.*
*Mycosphaerella berkeleyi cont.*
yield losses 529
peanut mottle potyvirus
elimination 8681
Florida 8681
seeds 8681
peanut stripe potyvirus
control 5471
elimination 8681
Florida 8681
India 5471
seeds 8681
*Penicillium*
detection 7033
resistance 4717
seeds 4717, 7033
toxins 7033
*Phoma microspora*
physiology 7838
varietal reactions 7840
phytoalexins, genetics 7827
pod rot
Nematoda 1101
Oklahoma 1101
soil amendments 7833
Taiwan 7833
*Pseudomonas solanacearum*
Papua New Guinea 1639
varietal reactions 1639
*Puccinia arachidis*
breeding 4715, 7839
control 3073, 7841
environmental factors 4715
genetic resources 3067
genetics 3065, 5473
host parasite relationships 3906
hyperparasites 6252
intercropping 7830
reviews 6249
screening 5477
survival 7832
Swaziland 5477
Taiwan 4715
varietal reactions 2323-2324, 3906, 7839
*Puccinia sorghi*
host parasite relationships 3906
varietal reactions 3906
*Pythium*
Oklahoma 3071
population dynamics 3071
*Pythium myriotylum*
soil amendments 7834
Taiwan 7834
tillage 1100
*Rhizoctonia solani*
biological control 232
control 3072
Egypt 7032
India 232
seed treatment 7032
*Rhizopus*
resistance 4717
seeds 4717
rhizosphere fungi, environmental factors 1103
*Sclerotinia minor*
breeding 8686
North Carolina 8687
sclerotia 7835
screening 8687
temperature 7835
testing 8689
Texas 7835
Virginia 8687
seedborne fungi
control 3068
harvesting 6248
*Thanatephorus cucumeris*
spread 5475
survival 5475
*Thielaviopsis basicola,* seed treatment 530
tomato spotted wilt tospovirus
Georgia 8680
intercropping 7830
Mississippi 3064
transmission 3064
yield losses 8680
viruses, elimination 7027

**Guadeloupe,** tomatoes, *Pseudomonas solanacearum* 2901
**Guam,** mangoes, *Glomerella cingulata* 1609
**Guar** (*Cyamopsis tetragonoloba*)
*Alternaria cyamopsidis*
crop growth stage 1500
varietal reactions 2818
*Aspergillus flavus*, seeds 8471
*Aspergillus fumigatus*, seeds 8471
*Aspergillus niger*, seeds 8471
*Colletotrichum dematium*
crop growth stage 1500
varietal reactions 2818
*Leveillula taurica*, crop growth stage 1500
*Macrophomina phaseolina*, control 748
*Myrothecium roridum*, crop growth stage 1500
*Neocosmospora vasinfecta*, India 4506
seedborne fungi, plant extracts 4504
*Xanthomonas campestris* pv. *cyamopsidis*
antagonists 4508
biochemistry 5282
biological control 2819, 4507
Brazil 7158
host parasite relationships 5282
varietal reactions 7158
**Guatemala,** *Hevea brasiliensis*, *Microcyclus ulei* 4786
**Guavas** (*Psidium guajava*)
air pollution, symptoms 4688
*Botryodiplodia theobromae*
Bangladesh 1615
control 1615
copper, deficiency 3005
*Cryphonectria cubensis*
pathogenicity 1085
South Africa 1085
diseases, Venezuela 7010
*Fusarium longipes*, antagonists 5454
*Fusarium oxysporum* f.sp. *psidii*
antagonists 5454
control 1617
*Fusarium solani*, antagonists 5454
*Gibberella fujikuroi*, antagonists 5454
*Glomerella cingulata*
Bangladesh 1615
control 1615
*Macrophomina phaseolina*
control 7006
population dynamics 1616
soil 1616
*Pestalotiopsis psidii*
Bangladesh 1615
control 1615, 6216
Taiwan 6216
*Pestalotiopsis versicolor*
physiology 6217
varietal reactions 6217
plant extracts, antifungal agents 2733
*Pseudocercospora psidii*
taxonomy 751
West Bengal 751
*Puccinia psidii*, control 3886
*Rhizoctonia solani*
physiology 6217
varietal reactions 6217
soil fungi, population dynamics 1616
wilt, control 7805
**Guazatine**
control, *Fusarium culmorum*, wheat 2682, 7456
fungicide residues, determination 7254
fungicide tolerance, *Geotrichum candidum* 4952
seed treatment, wheat 7456
***Guignardia bidwellii***
*Asplenium nidus*, India 3403
grapes
culture 2256
forecasting 225
perithecia 2256
***Guignardia musae,*** bananas, varietal reactions 492
**Guinea corn** (*see* Sorghum)
***Guizotia abyssinica***
phyllody
Karnataka 7847
mycoplasma-like organisms 7847
***Gunnera petaloidea,*** mycorrhizas, Hawaii 725
***Gutierrezia sarothrae***
*Puccinia grindeliae*
biological control 4895
New Mexico 4895
teliospores 4895
***Gymnema sylvestre,*** *Pseudocercospora gymnematis*, West Bengal 751
***Gymnosporangium***
pome fruits
control 7728
epidemiology 7728
*Pyrus sylvestris*
flavanols 2931
histochemistry 2931
***Gymnosporangium clavipes,*** ultrastructure, teliospores 4187
***Gymnosporangium haraeanum,*** ultrastructure 5766
***Gymnosporangium nelsonii,*** *Amelanchier alnifolia*, testing 3000
***Gynura aurantiaca,*** citrus exocortis viroid, polyamines 4268
***Gypsophila paniculata***
*Phytophthora nicotianae*, South Africa 7973
*Phytophthora nicotianae* var. *parasitica*
control 5576
Japan 5576
***Gyrothrix verticillata,*** Himachal Pradesh 7356
**Haiti,** *Erwinia amylovora* 4919
***Halophytophthora***
taxonomy, morphology 4227
ultrastructure, zoospores 4227
***Hapalophragmiopsis ponderosa,*** *Acacia leucophloea*, tissue culture 3977
***Haploravenelia japonica,*** *Albizia julibrissin*, Korea Republic 8759
***Hardwickia binata,*** *Pythium aphanidermatum*, Tamil Nadu 7927
***Harknessia eucalyptorum***
*Eucalyptus*
South Africa 4225
taxonomy 4225
***Harknessia fusiformis***
*Eucalyptus*
South Africa 4225
taxonomy 4225
***Harknessia syzygii***
*Syzygium cordatum*
South Africa 4225
taxonomy 4225
**Hazelnuts** (*Corylus avellana*)
*Anisogramma anomala*
Oregon 1623
spread 1623
varietal reactions 5462
*Pseudomonas syringae* pv. *avellanae*
Greece 6229
taxonomy 6229
*Tuber*, mycorrhizas, proteins 6479
*Xanthomonas campestris* pv. *corylina*, Italy 3888
**Heat treatment**
control
*Aspergillus niger*, onions 4543
banana bunchy top virus, bananas 5432
cereals, seedborne fungi 7439
fruit, postharvest decay 5121
mangoes, storage decay 1608
pawpaws, diseases 510
*Penicillium digitatum*, lemons 4676
pome fruits, viruses 1571
potato leaf roll luteovirus, potatoes 2827
potatoes, viruses 4516
shallots, viruses 2173
soil fungi 5774
sorghum, seedborne fungi 5197
sugarcane, diseases 1109
**Heavy metals**
activity
*Aspergillus carneus* 3194
*Aspergillus ellipticus* 3194
*Aspergillus flavus* 1871
*Corticium rolfsii*, barley 289
*Cunninghamella echinulata* 1871
fungi 5740-5741
*Fusarium oxysporum* f.sp. *psidii* 1617
**Heavy metals** *cont.*
activity *cont.*
*Myrothecium roridum*, soyabeans 6770-6771
*Myrothecium verrucaria* 1871
*Nectria radicicola* 5015
*Penicillium chrysogenum* 1871
*Phoma humicola* 1871
***Hebeloma bulbiferum***
Italy 2550
taxonomy 2550
***Hebeloma crustuliniforme***
*Betula pendula*, mycorrhizas 4133
landfills, mycorrhizas 3328
phosphorus 3327
*Picea abies*, mycorrhizas 5705
*Pseudotsuga menziesii*, mycorrhizas 699
***Hebeloma cylindrosporum***
Italy 2550
*Pinus pinaster*, mycorrhizas 710
*Pseudotsuga menziesii*, mycorrhizas 89
taxonomy 2550
***Hebeloma favrei***
Italy 2550
taxonomy 2550
***Hebeloma lutense***
Italy 2550
taxonomy 2550
***Hebeloma malenconii***
Italy 2550
taxonomy 2550
***Hebeloma ochroalbidum***
Italy 2550
taxonomy 2550
***Hebeloma pyrophilum***
Italy 2550
taxonomy 2550
***Hebeloma radicans,*** *Pinus*, mycorrhizas 4972
***Hebeloma sarcophyllum***
Italy 2550
taxonomy 2550
***Hedera helix,*** plant extracts, antifungal agents 2941
***Hedera nepalensis,*** *Meliola dichotoma*, Hunan 4799
***Hedysarum confertum***
*Glomus*
mycorrhizas
growth 1851
phosphorus 1851
Spain 1851
***Hedysarum spinosissimum***
*Glomus*
mycorrhizas
growth 1851
phosphorus 1851
Spain 1851
***Helianthus annuus*** (*see* Sunflowers)
***Helianthus tuberosus*** (*see* Jerusalem artichokes)
***Helichrysum baxteri,*** *Fusarium oxysporum*, New South Wales 5575
***Helichrysum bracteatum,*** *Fusarium oxysporum*, New South Wales 5575
***Helichrysum elatum,*** *Fusarium oxysporum*, New South Wales 5575
***Helichrysum picardii,*** plant extracts, antibacterial agents 1241
***Helicobasidium purpureum***
asparagus, mixed infections 2879
crops, Europe 2611
sugarbeet
control 5489
UK 5489
***Heliconia***
*Calonectria spathiphylli*
Florida 7382
taxonomy 7382
*Pseudomonas solanacearum*
Hawaii 5585
quarantine 5459, 5589
Queensland 5459, 5589
races 5585
***Heliconia psittacorum***
*Pseudomonas solanacearum*
isolates 5458
Queensland 5458
***Heliotropium europaeum***
*Cercospora heliotropii-bocconii*
Australia 7167

***Heliotropium europaeum*** *cont.*
*Cercospora heliotropii-bocconii cont.*
biological control 7167
*Uromyces heliotropii*
Australia 2429, 7167
biological control 2429, 7167
host range 2429
***Helminthosporium***
*Coriandrum sativum*, varietal reactions 4884
*Eichhornia crassipes*, Pakistan 8845
*Euphorbia heterophylla*
biological control 6364
Brazil 6364
laboratory tests, plant extracts 6465
sorghum, seeds 8358
wheat, control 3514
***Helminthosporium allii***, garlic, Poland 5305
***Helminthosporium maydis*** (*see Cochliobolus heterostrophus*)
***Helminthosporium oryzae*** (*see Cochliobolus miyabeanus*)
***Helminthosporium sativum*** (*see Cochliobolus sativus*)
***Helminthosporium sesami***, sesame, seeds 1106
***Helminthosporium solani***
potatoes
Belarus 2163
control 6046, 6048, 8486, 8493
drying 6814
storage 6046, 6048, 6814, 8493
UK 8486
***Helminthosporium teres*** (*see Pyrenophora teres*)
***Helminthosporium turcicum*** (*see Setosphaeria turcica*)
***Hemileia vastatrix***
coffee
breeding 6267
control 3928, 4734, 7862
Costa Rica 2337
Ethiopia 6267
flavonoids 7863
genetics 6267
histology 7049
host parasite relationships 547, 7049
infection 547
Karnataka 7862
Kenya 4734
Mexico 2338
nutrients 4735
resistance 7863
reviews 1652
varietal reactions 2338, 3927, 7863
Venezuela 3928
**Hemin**, activity, *Pseudomonas fluorescens* 4816
**Hemp** (*Cannabis sativa*)
plant extracts, antifungal agents 5694
**Henbane mosaic potyvirus**
ecology 166
*Solanum stoloniferum*, varietal reactions 6033
taxonomy 166
***Hendersonia kickxii***, wood, laboratory tests 2377
***Hendersonula toruloidea***, bamboos, Assam 4818
**Hepoxiconazole**, fungicide tolerance, *Pseudocercosporella herpotrichoides* 8317
**Heracleum latent virus**, X ray diffraction 5067
**Herbaria**
fungi
Hawaii 762
Massachusetts 7383
New Zealand 761
**Herbicides**
activity
*Cochliobolus sativus*, *Poa pratensis* 8396
cucumber mosaic cucumovirus
*Nicotiana glutinosa* 3940
tobacco 3940
fungi
*Phaseolus vulgaris* 3488
roots 3423
wheat 3488
**Herbicides** *cont.*
activity *cont.*
*Fusarium oxysporum* f.sp. *vasinfectum* 1677
*Macrophomina phaseolina* 7890
maize, diseases 881
*Pinus contorta*, blue stain 2392
rye, diseases 2622
*Sclerotinia sclerotiorum* 1872
*Thielaviopsis basicola*
soil 6273
tobacco 6273
*Verticillium albo-atrum*, cotton 6277
wheat, diseases 2622
control
*Corticium rolfsii*, barley 2046
furcraea necrotic streak virus, *Furcraea* 6282
nontarget effects, mycorrhizal fungi 7308
**Herbilotoxin**, activity, plant pathogens 8371
***Heritiera fomes***, *Fusarium pallidoroseum*, West Bengal 8843
***Herpotrichia juniperi***
*Picea abies*
natural regeneration 602
Switzerland 602
***Heterobasidion annosum***
biochemistry, enzymes 1258
Coniferae
soil biology 593
survival 593
forest trees
identification 3124
Ontario 3124
molecular genetics, nucleotide sequences 5765
*Picea abies*
bark 1168
Belarus 4845
Czechoslovakia 4827
decline 1167
detection 7943
France 603
Germany 1167
infection 1168
interactions 603
intersterility groups 4825
liming 1167
population dynamics 3989
resin acids 3157
resistance 3158
stilbenes 3157
Sweden 3989
vectors 4827
water stress 3158
*Picea sitchensis*
resistance 2397
stilbenes 2397
*Pinus elliottii*, estimation 4838
*Pinus sylvestris*
assessment 4833
Belarus 4832-4833
cultural methods 4832
Czechoslovakia 4827
intersterility groups 4825
Kazakhstan 4828
Latvia 1709
varietal reactions 1709, 4828
vectors 4827
*Pinus taeda*, estimation 4838
soil
soil biology 593
survival 593
trees, reviews 1687
***Heterobasidion araucariae***, molecular genetics, nucleotide sequences 5765
***Heteropogon triticeus***, *Massariothea similis*, taxonomy 5047
***Heterosporium albizziae***, *Albizia julibrissin*, Korea Republic 8759
***Heterosporium echinulatum***
carnations
Colombia 3182
control 3183
***Hevea***
*Microcyclus ulei*
control 579
phenolic compounds 2367
resistance 2367
mycorrhizas, Amazonas 5701
***Hevea*** *cont.*
*Pseudocercospora heveae*, São Paulo 7079
***Hevea brasiliensis***
*Bipolaris heveae*
control 1144
symptoms 1144
*Botryodiplodia theobromae*
histopathology 2370
Malaysia 2370
seeds 2370
brown bast, clonal variation 3961
*Corticium salmonicolor*, biological control 5523
*Corynespora cassiicola*
control 1144
symptoms 1144
diseases
control 6283
India 1354
integrated pest management 2366
Malaysia 2369, 6283, 6285
seeds 2369
South America 2366
Sri Lanka 578
*Ganoderma philippii*
control 2371
Malaysia 2371
*Glomerella cingulata*
control 1144
São Paulo 5526
symptoms 1144
*Microcyclus ulei*
Brazil 5522
Guatemala 4786
phenolic compounds 3960
resistance 3960
reviews 5522
*Oidium heveae*
control 1144
symptoms 1144
*Phellinus noxius*
biological control 5524-5525
control 2371
Côte d'Ivoire 7902
Malaysia 2371
models 5521, 7902
phloem necrosis
aetiology 1143
biochemistry 1142
cellulose 4787
Côte d'Ivoire 1142-1143
cytochemistry 4787
symptoms 1142
*Phytophthora*
control 1144
symptoms 1144
plant extracts, antifungal agents 7901
*Rigidoporus lignosus*
control 2371, 8746
Côte d'Ivoire 7902
Malaysia 2371, 8746
models 5521, 7902
*Thanatephorus cucumeris*, Sri Lanka 6284
*Ustulina deusta*, control 2368
**Hexaconazole**
activity
*Gaeumannomyces graminis* var. *tritici*, wheat 2640
*Rhizoctonia solani*, wheat 2640
control
*Podosphaera leucotricha*, apples 6915
*Tranzschelia discolor*, almonds 4690
*Venturia inaequalis*, apples 2948, 6915
distribution, wheat 6640
fungicide residues, groundwater 2471
***Hibiscus cannabinus*** (*see* Kenaf)
***Hibiscus esculentus*** (*see* Okras)
**Hibiscus esculentus yellow vein mosaic virus**
okras
Uttar Pradesh 7726
varietal reactions 7726
***Hibiscus rosa-sinensis***
*Phytophthora nicotianae* var. *parasitica*
hydroponics 6331
temperature 6331
***Hindola***, transmission, *Pseudomonas syzygii* 8829

***Hindola fulva*, transmission, *Pseudomonas syzygii* 2417**
***Hindola striata*, transmission, *Pseudomonas syzygii* 2416-2417**
**Hinokitiol**
activity
*Alternaria alternata*
aubergines 3762
*Capsicum* 3762
*Botrytis cinerea*
aubergines 3762
*Capsicum* 3762
***Hishimonus phycitis*, transmission, mycoplasma-like organisms 6338**
***Holcus lanatus***
mycorrhizas
ecology 8143
growth 8144
nutrient uptake 8144
**Homeopathic drugs**
activity
cucumber mosaic cucumovirus 5466
*Capsicum* 6119
fruit, postharvest decay 6511
**Homidium**, activity, potato X potexvirus, tobacco 7053
**Honduras**
maize
*Gibberella fujikuroi* 301
*Stenocarpella maydis* 301
*Phaseolus vulgaris*
seedborne organisms 3687
*Uromyces appendiculatus* 3686
sorghum, *Peronosclerospora sorghi* 3620
**Honeybees**, transmission, *Gliocladium roseum* 478
**Hop latent carlavirus**
hops
Germany 7982
New Zealand 4886
reinfection 7982
**Hop latent viroid**
hops
diagnosis 3202
spread 2418
varietal reactions 2418
**Hop mosaic carlavirus**
hops
Germany 7982
New Zealand 4886
reinfection 7982
**Hop stunt viroid**
hops
diagnosis 3202
plant growth regulators 7159
***Hopea odorata***
*Boletus*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Russula*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Scleroderma*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
**Hops** (*Humulus lupulus*)
arabis mosaic nepovirus
New Zealand 4887
transmission 4887
diseases
control 3203, 8832
Czech Republic 3203
nomenclature 6622
Slovakia 3203
*Fusarium oxysporum*, Beijing 4016
hop latent viroid
diagnosis 3202
spread 2418
varietal reactions 2418
hop stunt viroid
diagnosis 3202
plant growth regulators 7159
*Peronospora*
Czechoslovakia 4889
forecasting 4889
**Hops** *cont.*
*Peronospora humuli*
control 2419
varietal reactions 2419
prunus necrotic ringspot ilarvirus
detection 5598-5599
environmental factors 5599
Poland 5598
*Pseudoperonospora humuli*
Czech Republic 4888
forecasting 4888
models 4888
root rots
aetiology 7160
Germany 7160
symptoms 7160
viruses
Germany 7982
New Zealand 4886
reinfection 7982
transmission 7983
***Horakiella clelandii*, taxonomy 709**
***Hordeum chilense***
*Puccinia*
appressoria 1984
resistance 1984
*Puccinia hordei*
histology 863
varietal reactions 863
*Puccinia recondita*
histology 863
varietal reactions 863
*Puccinia striiformis*
histology 863
varietal reactions 863
***Hordeum distichum* (*see* Barley)**
***Hordeum murinum***
*Erysiphe graminis*
France 2037
Italy 2037
Spain 2037
strains 2037
***Hordeum vulgare* (*see* Barley)**
***Hormonema dematioides***
*Pinus sylvestris*
pathogenicity 600, 1708
temperature 599
**Horticultural crops**
cucumber mosaic cucumovirus, Spain 2618
diseases
Arkansas 5820
breeding 5820
control 7432
Denmark 5839
genetics 1972
plant extracts 7432
resistance 1972
mycorrhizas, Korea Republic 7304
tomato mosaic tobamovirus, disinfectants 789
viruses, disinfectants 789
**Host parasite relationships**
biochemistry, reviews 653, 8245
books 4905
callose, elicitors 814
defence mechanisms 813
elicitors 813
evolution 650
molecular genetics, reviews 8245
phytoalexins, elicitors 814
polysaccharides, reviews 153
reviews 2619, 8247
suppressors, reviews 155
**Hot air treatment**, control, sugarcane, diseases 1109
**Hot water treatment**
activity
*Glomerella cingulata*, avocados 3884
potatoes 6059
control
*Aspergillus niger*, onions 994
*Botrytis cinerea*, sunflowers 6241
citrus, yellow shoot 1079
*Fusarium oxysporum*, spinach 5320
grapes, flavescence dorée 483
maize, seedborne fungi 879
mangoes
postharvest decay 8656
storage decay 1608
melons, postharvest decay 5378
**Hot water treatment** *cont.*
control *cont.*
pawpaws, storage decay 3037
rice, seedborne fungi 326
strawberries, diseases 3849
sugarcane, diseases 1109, 1113
*Thielaviopsis basicola*, groundnuts 530
*Xanthomonas campestris* pv. *malvacearum* 1138
seed treatment
*Phaseolus vulgaris* 3689
squashes 3787
wheat 3538
**Humariaceae**, ultrastructure, ascospores 2534
**Humic acids**, activity, *Pyricularia oryzae*, rice 2743
***Humicola***
*Terminalia ivorensis*
fruit 4819
Nigeria 4819
***Humicola lanuginosa*, rice, detection 1460**
***Humulus lupulus* (*see* Hops)**
**Hungary**
apples, *Venturia inaequalis* 2950
apricots, *Pseudomonas syringae* pv. *syringae* 2241
cherries, *Pseudomonas syringae* pv. *syringae* 2241
crops, *Macrophomina phaseolina* 7417
faba beans
*Botrytis cinerea* 8433
*Pleospora herbarum* 8433
seedborne fungi 8434-8435
grapes, viruses 7780
lentils
*Epicoccum nigrum* 3699
*Pleospora tarda* 3699
maize
maize dwarf mosaic potyvirus 2049
sugarcane mosaic potyvirus 2049
*Phaseolus vulgaris*
bacteria 3691
*Pseudomonas syringae* pv. *phaseolicola* 3691
*Xanthomonas campestris* pv. *phaseoli* 3691
plants, powdery mildews 5039
potatoes, *Phoma exigua* var. *foveata* 1515
*Quercus petraea*, decline 6294
soil, beet necrotic yellow vein furovirus 7855
sorghum
maize dwarf mosaic potyvirus 3606
sugarcane mosaic potyvirus 3606
soyabeans, *Fusarium solani* 5996
sugarbeet, beet necrotic yellow vein furovirus 7855
sunflowers
*Diaporthe phaseolorum* 2301
*Sclerotinia sclerotiorum* 2301
weeds, *Macrophomina phaseolina* 7417
wheat
*Fusarium* 6671
*Gibberella zeae* 6671
*Puccinia graminis* 1392
viruses 1382
***Hyalesthes obsoletus*, transmission, mycoplasma-like organisms 1348, 4576**
**Hydantoins**, antifungal properties 3289
***Hydnangium sublamellatum*, *Eucalyptus*, mycorrhizas 4974**
***Hydnellum peckii*, *Picea abies*, mycorrhizas 4137**
***Hydnoblites*, taxonomy 2556**
***Hydnotria tulasnei*, taxonomy, spores 6566**
***Hydnum rufescens*, rhizomorphs 4970**
***Hydrilla verticillata***
*Macrophomina phaseolina*
biological control 4028
histopathology 4028
plant extracts, antifungal agents 3315
**Hydrogen peroxide**, control, *Botrytis cinerea*, grapes 5427
***Hydrolea zeylanica*, *Cercospora hydroleae*, West Bengal 753**
***Hyla cinerea*, transmission, *Colletotrichum gloeosporioides* f.sp. *aeschynomene* 1189, 3210**

***Hylastes nigrinus*,** transmission, *Leptographium wageneri* 6324
***Hylastinus obscurus*,** interactions, *Gibberella avenacea*, *Trifolium pratense* 5236
***Hylobius abietis*,** transmission, *Heterobasidion annosum* 4827
***Hymenochaete rubiginosa*,** forest trees, Taiwan 2378
***Hymenogaster*, *Quercus myrsinaefolia*,** mycorrhizas 4130
***Hymenogaster saliciphilus***
*Salix herbacea*, mycorrhizas 8129
taxonomy, new species 8129
***Hymenoscyphus***
Slovakia 7364
taxonomy 7364
new combinations 1919
Slovakia 1919
***Hymenoscyphus ericae***
biochemistry, enzymes 3354
*Calluna vulgaris*, mycorrhizas 1279
Ericaceae, mycorrhizas 1280
molecular genetics
RNA 6502
taxonomy 6502
*Vaccinium*, mycorrhizas 4172
*Vaccinium myrtillus*, mycorrhizas 1279
***Hymenula cerealis***
rye, varietal reactions 2625
triticale, varietal reactions 2625
wheat, varietal reactions 2625
***Hyoscyamus muticus*, *Rhizoctonia solani*,** elicitors 7136
***Hypericum calycinum*,** plant extracts, antifungal agents 8120
***Hypholoma fasciculare*,** biochemistry, enzymes 1869
**Hyphomycetes**
cereals
air spora 4217
Asia 4217
Kazakhstan 4217
Himachal Pradesh 7356
taxonomy 1906
Utah 7361
***Hypomyces odoratum*,** antagonism, *Armillaria mellea* 581
***Hypoxylon*,** rain forests, Papua New Guinea 1904
***Hypoxylon bipapillatum***
*Sequoia sempervirens*
endophytes 7107
USA 7107
***Hypoxylon fragiforme***
*Fagus sylvatica*
host parasite relationships 4805
infection 4805
***Hypoxylon mediterraneum*, *Quercus*,** Italy 4802
***Hypoxylon serpens*,** tea, control 4732
***Hystrix patula*, *Acremonium coenophialum*,** host range 6753
**ICIA5504,** control, crops, diseases 8100
***Idriella***
*Euterpe oleracea*
endophytes 774
Para 774
taxonomy 774
**Imazalil**
activity
*Botrytis cinerea* 1811
*Penicillium italicum* 1815, 3298
*Pestalotiopsis psidii* 6216
*Pyrenophora teres* 1811
*Ustilago zeae* 1811
control
*Helminthosporium solani*, potatoes 6046
kiwifruits, storage decay 3808
*Nectria galligena*, apples 2958
onions, storage decay 2860
*Penicillium oxalicum*, maize 4399
fungicide residues
fruit 2451
oranges 8653
vegetables 2451
fungicide tolerance
*Aspergillus nidulans* 4199
*Sphaerotheca fuliginea* 4601
seed treatment
asparagus 8532
**Imazalil** *cont.*
seed treatment *cont.*
maize 4399
rice 5964
**IMI descriptions,** plant pathogens 124, 1903, 3394, 7357
**IMI distribution maps,** plant pathogens 3389
**Iminoctadine**
control
citrus, storage decay 4667
*Phoma asparagi*, asparagus 5321
***Impatiens***
diseases
integrated control 7958
Maryland 7958
impatiens necrotic spot virus
characteristics 1178
Netherlands 1178
tomato spotted wilt tospovirus
characteristics 1178
Netherlands 1178
**Impatiens necrotic spot virus**
characteristics 8202
*Impatiens*
characteristics 1178
Netherlands 1178
Italy 5123, 8202
*Nicotiana benthamiana*
histopathology 8224
serology 8224
temperature 8224
ornamental woody plants, Georgia 5556
***Impatiens walleriana***
tomato spotted wilt tospovirus, Costa Rica 6337
*Verticillium dahliae*, USA 6342
viruses, characteristics 7133
***Imperata arundinacea***
*Cochliobolus pallescens*
reservoir hosts 1765
Uttar Pradesh 1765
West Bengal 755
*Puccinia melanocephala*, Uttar Pradesh 1643
***Imperata cylindrica*, *Puccinia imperatae*,** Iran 6550
**India**
air spora 221
almonds, viruses 4607
*Anethum sowa*, *Leveillula taurica* 4021
apples, viruses 4607
aubergines, tobacco mosaic tobamovirus 6876
*Centaurea cyanus*, *Sclerotinia sclerotiorum* 4021
*Cercospora*, taxonomy 6552
cherries, viruses 4607
chickpeas
*Botrytis cinerea* 5276
diseases 232
*Cissus*, *Pseudocercospora cissi* 7366
*Coleus forskohlii*, *Rhizoctonia solani* 6349
cotton, *Xanthomonas campestris* pv. *malvacearum* 7899
cucumbers, cucumber mosaic cucumovirus 4595
Cucurbitaceae, *Erysiphe cichoracearum* 1564
*Cymbopogon winterianus*, *Pythium aphanidermatum* 1183
*Cyperus pangore*, *Cintractia limitata* 3401
*Delonix regia*, air pollution 1160
*Elaeodendron glaucum*, *Stigmella tirumalensis* 7366
*Ficus benjamina*, *Amerosporium polynematoides* 3401
*Ficus pumila*, *Discosia subramanianii* 1921
forest trees, seed pathology 1146
fruit
mycoplasma-like organisms 6973
viruses 6973
fungi 3402-3403, 5629
*Fusarium* 6569
*Gloeophyllum sepiarium* 7358
grain legumes, diseases 2099
groundnuts
diseases 232
**India** *cont.*
groundnuts *cont.*
groundnut bud necrosis virus 8203
peanut stripe potyvirus 5471
guar, *Neocosmospora vasinfecta* 4506
Indian mustard
*Albugo candida* 5310
*Alternaria brassicae* 5310
*Peronospora parasitica* 5310
integrated pest management 7419
Leguminosae, viruses 350
lentils, diseases 232
*Leptadenia*, *Cercospora leptadeniana* 6552
maize
*Apiospora camptospora* 7509
seedborne fungi 5913
melons, *Pseudoperonospora cubensis* 2920
*Muntingia*, *Phloeosporella muntingia* 7366
mycorrhizal fungi 6498
*Ougeinia oojeinensis*, *Stigmina dehradunensis* 590
peaches, viruses 4607
peas
diseases 4480
*Xanthomonas campestris* pv. *phaseoli* 2805
pesticides, registration 1224
*Phaseolus vulgaris*
cucumber mosaic cucumovirus 5256
*Xanthomonas campestris* pv. *phaseoli* 2805
pigeon peas, pigeon pea sterility mosaic virus 8462
*Pinus kesiya*, *Rhizoctonia solani* 4829
plant diseases, quarantine 5585
*Populus deltoides*
*Cercospora populina* 3984
*Phoma macrostroma* 3984
potatoes, potato leaf roll luteovirus 5287
*Pseudocercospora*, taxonomy 6552
*Rhizoctonia*, anastomosis groups 3399
rice, *Cochliobolus miyabeanus* 4430
*Rosa damascena*, *Diplocarpon rosae* 3401
roses, *Coniothyrium fuckelii* 2406
sorghum
diseases 3624
*Macrophomina phaseolina* 5198
*Peronosclerospora sorghi* 3608
*Tolyposporium ehrenbergii* 312
tomatoes, postharvest decay 6105
trees
mycoplasma-like organisms 1354
mycorrhizas 2505
viruses 1354
*Tylophora*, *Pseudocercospora tylophoricola* 6552
*Vigna aconitifolia*, yellow mosaic virus 8466
wheat
*Puccinia graminis* 4316-4317
*Puccinia recondita* 2005, 4322
*Ustilago segetum* var. *tritici* 2668
*Xanthomonas campestris* 1791
yams, *Cylindrocarpon lichenicola* 3741
Andaman and Nicobar Islands
*Litsea*, *Meliola sempeiensis* var. *nicobarica* 8783
rice, diseases 5202
Andhra Pradesh
*Ageratum conyzoides*, rhizosphere fungi 634
*Cassia occidentalis*, *Pseudocercospora sieberiana* 7384
*Catharanthus roseus*, viruses 5572
chickpeas, diseases 6798
*Flaveria australasica*, rhizosphere fungi 634
groundnuts, *Mycosphaerella* 1637
*Parthenium hysterophorus*, rhizosphere fungi 634
*Piper betle*, viruses 4008
*Pongamia pinnata*, *Pseudocercospora pongamiae-pinnatae* 1925
*Pseudocercospora asteracearum* 3398
*Pseudocercospora moracearum* 3398
*Pseudocercospora rungiae* 3398

**India** *cont.*
Andhra Pradesh *cont.*
rice, *Cochliobolus miyabeanus* 7550
soil, rhizosphere fungi 634
sugarcane, sugarcane mosaic potyvirus 5480
*Tagetes patula*, viruses 5571
*Tephrosia villosa*, *Pseudocercospora tephrosiae* 3674
*Ziziphus mauritiana*, *Oidium erysiphoides* 4685
Arunachal Pradesh, mandarins, *Botryodiplodia theobromae* 3016
Assam
bamboos, diseases 4818
*Bauhinia purpurea*, *Septoria bauhiniae* 7954
*Dendrobium*, *Botryodiplodia theobromae* 3400
*Desmodium obcordatum*, *Colletotrichum capsici* 3400
*Flacourtia cataphracta*, *Pestalotiopsis glandicola* 3400
*Garcinia mangosana*, *Botryodiplodia theobromae* 3400
jute, *Coniothyrium fuckelii* 3400
*Leucaena leucocephala*, *Camptomeris leucaenae* 3976
okras, okra (bhendi) yellow vein mosaic bigeminivirus 2217
*Oroxylum indicum*, seedborne fungi 4820
*Peperomia*, *Colletotrichum capsici* 3400
*Piper betle*, *Colletotrichum capsici* 3193
*Polygonum chinense*, *Colletotrichum capsici* 3400
potatoes
*Macrophomina phaseolina* 6045
*Periconia narsapurensis* 6045
*Phoma* 6045
*Phoma herbarum* 6045
*Phyllosticta* 6045
*Pteris longifolia*, *Glomerella cingulata* 3400
*Quamoclit vulgaris*, *Glomerella cingulata* 3400
rice
*Phoma sorghina* 5780
*Ustilaginoidea virens* 8387
sesame, *Xanthomonas campestris* pv. *sesami* 7846
*Smilax macrophylla*, *Glomerella cingulata* 3400
sweet potatoes
*Cercospora ipomoeae* 5780
*Cochliobolus lunatus* 5780
*Tephrosia candida*, *Glomerella cingulata* 3400
yams, *Glomerella cingulata* 2414
*Ziziphus mauritiana*
*Cladosporium cladosporioides* 5780
*Tandonella zizyphi* 5780
Bihar
chickpeas, *Fusarium oxysporum* f.sp. *ciceris* 6796
*Echinochloa colonum*, *Sarocladium oryzae* 3652
Indian mustard, *Aspergillus* 3755
maize, *Aspergillus flavus* 6704
plant protection 5114
rice, *Sarocladium oryzae* 3652
Delhi
*Pimpinella monoica*, cucumber mosaic cucumovirus 1754
soyabeans, soybean yellow mosaic virus 2777
viruses, vectors 3432
Goa, Daman and Diu
*Canavalia ensiformis*, seedborne fungi 6030
*Canavalia gladiata*, seedborne fungi 6030
Gujarat, Indian mustard, *Erysiphe cruciferarum* 3756
Haryana
*Albizia lebbek*
*Camptomeris albizziae* 8780
diseases 8780

**India** *cont.*
Haryana *cont.*
aquatic weeds, fungi 8859
*Capsicum*
*Diaporthe phaseolorum* 3783
*Didymella lycopersici* 3783
*Convolvulus arvensis*, *Fusarium pallidoroseum* 8859
*Coriandrum sativum*, coriander chlorotic lesion virus 5597
*Dalbergia sissoo*, *Myrothecium roridum* 4813
*Eichhornia crassipes*
*Cochliobolus sativus* 8859
*Fusarium chlamydosporum* 8859
onions, *Alternaria porri* 3750
potatoes
*Erwinia carotovora* subsp. *atroseptica* 3732
*Erwinia carotovora* subsp. *carotovora* 3732
rice
mineral deficiencies 2753
*Ustilaginoidea virens* 5966
soil, mycorrhizal fungi 4983
wheat
*Tilletia indica* 2664
*Urocystis agropyri* 2685
Himachal Pradesh
*Abies pindrow*, damping off 2399
*Aegilops kotschyei*, *Puccinia striiformis* 262
almonds, *Tranzschelia discolor* 4690, 7809
*Amaranthus*, *Peronospora amaranthi* 3392
apples
*Corticium salmonicolor* 4615
fungicide residues 6919
*Gloeodes pomigena* 7732
*Schizothyrium pomi* 7732
*Venturia inaequalis* 5388
barley, *Puccinia striiformis* 262
*Capsicum*, potato Y potyvirus 6120
chickpeas, *Ascochyta rabiei* 6799
*Coriandrum sativum*, *Protomyces macrosporus* 8828
*Crepis japonica*, *Bremia ovata* 3392
Hyphomycetes 7356
*Lactuca serriola*, *Bremia lactucae* 3392
liquorice, *Phyllosticta glycyrrhizae* 7975
mangoes
*Capnodium mangiferae* 5447
*Capnodium ramosum* 5447
dieback 3022
malformation 6214
*Meliola mangiferae* 5447
melons, *Pseudomonas syringae* pv. *lachrymans* 3810
mulberries
*Mycosphaerella mori* 6952
*Myrothecium roridum* 6952
*Xanthomonas campestris* 6952
onions, *Peronospora destructor* 3746
pears, storage decay 4619
Peronosporales 3392
*Populus*, diseases 7919
*Rhododendron arboreum*, *Leptoxyphium fumago* 7926
rice, *Pyricularia oryzae* 3642
rough lemons, *Rhizoctonia solani* 4670
soyabeans, *Colletotrichum dematium* 4466
Sphaeropsidales 5778
tomatoes, potato Y potyvirus 4574
*Veronica cinerea*, *Plasmopara veronicae-chinensis* 3392
*Vigna mungo*, diseases 3708
wheat
*Erysiphe graminis* 5151, 7455
*Puccinia striiformis* 262, 7455
*Tilletia indica* 5149
Indian Punjab
*Ageratum conyzoides*, okra (bhendi) yellow vein mosaic bigeminivirus 4025
*Avena sterilis* subsp. *ludovici*, *Sclerophthora macrospora* 4301

**India** *cont.*
Indian Punjab *cont.*
cauliflowers, *Sclerotinia sclerotiorum* 8512
chickpeas, *Verticillium* 2142
citrus, *Gloeosporium limetticola* 4669
crops, diseases 8249
grapes
*Elsinoë ampelina* 8634
*Trichothecium roseum* 3859
*Litchi chinensis*, *Pestalotiopsis mangiferae* 3880
*Lophochloa pumila*, *Sclerophthora macrospora* 4301
mangoes
*Botryodiplodia theobromae* 4681
*Macrophoma mangiferae* 4681
*Pestalotiopsis mangiferae* 4681
oats, *Sclerophthora macrospora* 4301
okras, *Macrophomina phaseolina* 6906
*Polypogon monspeliensis*, *Sclerophthora macrospora* 4301
soyabeans, soybean yellow mosaic virus 5246
sunflowers
*Alternaria alternata* 3895
*Alternaria helianthi* 3895
wheat, *Erysiphe graminis* 5151
Jammu and Kashmir
almonds, storage decay 7808
cherries
*Stigmina carpophila* 3842
storage decay 7752
cucumbers, storage decay 8597
*Docynia indica*, *Aspergillus* 6154
fungi, books 1901
mycorrhizal fungi 3331
pawpaws, storage decay 7807
*Phyllanthus emblica*, postharvest decay 6218
*Populus*, diseases 4810
quinces, storage decay 8620
rice, *Ustilaginoidea virens* 8388
tomatoes
*Fusarium oxysporum* 8563
*Fusarium pallidoroseum* 8563
*Gibberella acuminata* 8563
storage decay 8563
walnuts, storage decay 7808
Karnataka
*Capsicum*, viruses 6885
coconuts, *Phytophthora* 1635
coffee
air spora 546
*Cercospora coffeicola* 7862
*Corticium rolfsii* 7865
*Hemileia vastatrix* 7862
*Koleroga noxia* 7862, 7867
*Phellinus noxius* 7862
*Eleusine coracana*, *Magnaporthe grisea* 7520
*Eucalyptus citriodora*, *Alternaria alternata* 4794
forest trees, diseases 5530
*Grevillea robusta*, *Botryodiplodia theobromae* 7928
groundnuts, *Mycosphaerella* 1637
*Guizotia abyssinica*, phyllody 7847
maize
*Peronosclerospora sorghi* 4390
*Setosphaeria turcica* 2060
Meliolaceae 7360
*Mentha arvensis*
*Macrophomina phaseolina* 8831
*Rhizoctonia solani* 8831
mulberries, *Fusarium pallidoroseum* 4640
*Nephrolepis biserrata*, *Alternaria tenuissima* 1186
*Pennisetum*, *Magnaporthe grisea* 2092
*Pennisetum americanum*, *Magnaporthe grisea* 2092
*Phaseolus lunatus*, *Macrophomina phaseolina* 8444
*Pinus caribaea*, *Rhizoctonia solani* 6303
*Populus deltoides*, *Glomerella cingulata* 4794

**India** *cont.*
Karnataka *cont.*
*Psophocarpus tetragonolobus*, witches' brooms 2149
rice
*Pyricularia oryzae* 5213, 6720
*Sarocladium oryzae* 5213
sandal, *Santalum album* 5539
soyabeans, *Alternaria tenuissima* 2784
sunflowers, *Alternaria helianthi* 525
tamarinds, *Pestalotia macrotricha* 1614
tobacco, *Pythium myriotylum* 3941
*Vigna radiata*, *Erysiphe polygoni* 383, 971
watermelons, *Colletotrichum orbiculare* 2916
wheat
*Puccinia graminis* 7458
*Puccinia recondita* 2006, 5144, 7458
Kerala
*Acacia auriculiformis*, *Corticium salmonicolor* 5542
cardamoms, nilgiris necrosis virus 3195
coconuts
*Ganoderma applanatum* 1098
*Ganoderma lucidum* 1098
*Pestalosphaeria elaeidis* 7024
root (wilt) 7025, 8679
*Eucalyptus*
*Calonectria ilicicola* 4797
*Calonectria quinqueseptata* 4797, 7910
*Cylindrocladium clavatum* 4797
diseases 3966
*Eucalyptus grandis*, diseases 3135
*Momordica charantia*, viruses 3791
oil palms, mycoplasma-like organisms 6242
sorghum, *Peronosclerospora sorghi* 311, 313
*Stachytarpheta indica*, cucumber mosaic cucumovirus 7989
*Tectona grandis*, *Fusarium solani* 4796
Madhya Pradesh
*Abutilon*
*Discosia aquatica* 5779
*Phomopsis abutilonis* 5779
*Albizia lebbek*, *Phomopsis medax* 5779
aubergines, *Paracercospora egenula* 5779
chickpeas, bean leaf roll luteovirus 2134
*Croton tiglium*, *Colletotrichum dematium* 8822
*Diospyros melanoxylon*, *Glomerella cingulata* 4824
*Eleusine coracana*, seedborne fungi 2727
*Equisetum arvense*, *Poitrasia circinans* 5779
*Eucalyptus tereticornis*, *Verticillium* 6292
*Ficus religiosa*, *Glomerella cingulata* 8781
forest trees, diseases 3132
groundnuts, *Corticium rolfsii* 3069
maize, seedborne fungi 3596
*Piper betle*, *Rhizoctonia solani* 7978
*Pterospermum acerifolium*, *Phomopsis pterocarpi* 1704
rice, *Xanthomonas oryzae* pv. *oryzae* 6746
soyabeans, seedborne fungi 1485
sunflowers, *Plasmopara halstedii* 3052
*Vigna radiata*, phyllody 966
Maharashtra
Amaryllidaceae, Uredinales 4007
*Capsicum*, *Macrophomina phaseolina* 1022
chickpeas, *Alternaria alternata* 968
chrysanthemums, *Fusarium oxysporum* f.sp. *chrysanthemi* 7962
cloves, *Pestalotiopsis versicolor* 7151

**India** *cont.*
Maharashtra *cont.*
forest trees, *Diatrype carissae* 3965
grapes
*Elsinoë ampelina* 2996
fungicide residues 2253
*Xanthomonas campestris* pv. *viticola* 4654
Liliaceae, Uredinales 4007
pigeon peas, seedborne fungi 3706
rice, *Xanthomonas oryzae* pv. *oryzae* 5968
roses, *Myriangium rosicola* 5563
sorghum, seedborne fungi 894
*Thryallis glauca*, *Oidiopsis thryallidis* 7365
Uredinales 3397
*Zingiber officinale*, *Fusarium* 3196
Manipur
*Amaranthus viridis*, *Albugo candida* 2871
faba beans, *Corticium rolfsii* 7604
*Quercus acutissima*, *Botryosphaeria ribis* 3968
Meghalaya
groundnuts, *Mycosphaerella arachidis* 4713
soil, mycorrhizas 4981
Mizoram, oranges, *Diaporthe citri* 6208
Orissa
cucumbers, seedborne fungi 2918
groundnuts, *Corticium rolfsii* 5476
*Luffa acutangula*, seedborne fungi 2918
pumpkins, seedborne fungi 2918
*Samanea saman*, *Fusarium pallidoroseum* 4821
soil, *Corticium rolfsii* 5476
*Vigna mungo*, mung bean yellow mosaic bigeminivirus 5277
*Vigna radiata*, diseases 5278
Rajasthan
barley
*Pyrenophora graminea* 7492
*Ustilago segetum* var. *nuda* 5894
dates, *Botryodiplodia theobromae* 8658
*Gigaspora tuberculata* 6492
mangoes, *Glomerella cingulata* 5449
melons, *Fusarium oxysporum* 5374
*Pennisetum americanum*, *Sclerospora graminicola* 6710
sesame, *Macrophomina phaseolina* 6253
sorghum, *Phoma sorghina* 1447
sugarbeet, *Cercospora beticola* 8711
watermelons, *Alternaria cucumerina* 5375
Sikkim
*Amomum subulatum*
*Rhizoctonia solani* 4883
*Robillarda sessilis* 4012
*Ficus infectoria*, *Glomerella cingulata* 8769
maize
*Sphacelotheca reiliana* 4389
*Ustilaginoidea virens* 4389
*Ustilago zeae* 4389
okras, *Pseudocercospora abelmoschi* 5385
*Phaseolus vulgaris*, *Phoma exigua* 8447
pigeon peas, *Mycovellosiella cajani* 3707
*Schima wallichii*, *Phyllachora euryae* 8769
*Vigna umbellata*, diseases 8470
Tamil Nadu
bananas, diseases 1076
cardamoms, nilgiris necrosis virus 3195
coconuts, *Ganoderma lucidum* 528
cotton, *Glomerella cingulata* 8739
*Fagopyrum cymosum*, *Sphacelotheca fagopyri* 8852
garlic
*Botrytis allii* 7663
*Corticium rolfsii* 7663
*Fusarium equiseti* 7663
*Fusarium oxysporum* 7663
grapes, *Elsinoë ampelina* 1073

**India** *cont.*
Tamil Nadu *cont.*
*Hardwickia binata*, *Pythium aphanidermatum* 7927
*Leucaena latisiliqua*, *Endoconospora indica* 7375
mandarins, *Fusarium* 8650
mulberries, diseases 3852
*Oryza officinalis*, *Cochliobolus lunatus* 3647
pawpaws, *Phytophthora* 8660
*Piper betle*, *Phytophthora palmivora* 4882
plants, mycorrhizas 7299
rice
*Cochliobolus lunatus* 336, 3647
*Sarocladium oryzae* 2082, 5224
soil, mycorrhizas 4156
sorghum
*Claviceps sorghi* 893
*Setosphaeria turcica* 1440
sugarcane
*Glomerella tucumanensis* 2328
grassy shoot 7850
*Syzygium cumini*, *Botryodiplodia theobromae* 1184
Uttar Pradesh
*Albizia lebbek*
*Camptomeris albizziae* 8780
diseases 8780
aubergines, tomato spotted wilt tospovirus 8570
*Capsicum*
*Alternaria longissima* 7702
*Myrothecium verrucaria* 1558
*Phytophthora nicotianae* 8236
*Colocasia antiquorum*
*Acremonium roseolum* 3742
*Botryodiplodia theobromae* 3742
*Cycas revoluta*
*Gibberella fujikuroi* 609
*Gibberella fujikuroi* var. *intermedium* 609
*Dalbergia sissoo*
*Myrothecium roridum* 4813
*Phoma nivea* 4813
*Eleusine coracana*, *Cochliobolus pallescens* 1765
*Eucalyptus tereticornis*
*Fusarium* 7909
*Pythium* 7909
forest trees, *Schizophyllum commune* 7905
*Imperata arundinacea*
*Cochliobolus pallescens* 1765
*Puccinia melanocephala* 1643
maize, seedborne fungi 5850
mangoes
*Leptoxyphium fumago* 1610
*Microxyphium columnatum* 1610
*Tripospermum myrti* 1610
*Michelia champaca*, *Rhizoctonia solani* 6298
mulberries
*Mycosphaerella mori* 6952
*Myrothecium roridum* 6952
*Xanthomonas campestris* 6952
okras, hibiscus esculentus yellow vein mosaic virus 7726
peas, *Erysiphe pisi* 8454
*Phaseolus vulgaris*, *Phaeoisariopsis griseola* 8236
*Pinus*, seedborne fungi 6312
*Populus*, diseases 4809
*Populus deltoides*, *Melampsora laricipopulina* 6295
potatoes
*Phytophthora infestans* 6822
*Streptomyces aureofaciens* 3731
*Pseudocercosporella* 1905
pumpkins, viruses 6130
rice
seedborne fungi 5850
*Xanthomonas oryzae* pv. *oryzae* 921
roses, *Diplodia rosarum* 4855
sarson, *Alternaria* 999
sorghum, *Erwinia chrysanthemi* 5933
soyabeans, seedborne fungi 7595-7596

**India** *cont.*
Uttar Pradesh *cont.*
*Stylosanthes scabra, Corticium rolfsii* 7585
sugarcane
phylloplane fungi 3079
*Puccinia melanocephala* 1643
*Tagetes erecta, Macrophomina phaseolina* 7964
tomatoes
*Alternaria solani* 8236
*Phytophthora nicotianae* var. *parasitica* 8557
*Septoria lycopersici* 8236
tomato spotted wilt tospovirus 8546
tomato yellow leaf curl bigeminivirus 8546
*Vigna radiata*
*Cercospora canescens* 7629
*Mycosphaerella cruenta* 7629
wheat, seedborne fungi 5850
West Bengal
*Acanthus ilicifolius, Glomerella cingulata* 8843
*Alocasia indica, Stenella alocasiae* 750
*Alternanthera sessilis, Alternaria pimpriana* 752
*Amoora rohituka, Pseudocercospora amoorae* 749
*Atylosia villosa, Cercospora atylosiae* 753
*Avicennia alba, Alternaria alternata* 8843
*Avicennia marina, Cladosporium marinum* 8844
*Avicennia officinalis, Bipolaris colocasiae* 8843
*Capsicum, Colletotrichum capsici* 8584
*Cercospora averrhoae* 754
*Cercospora guineensis* 754
*Ceriops decandra, Pestalotiopsis versicolor* 8842
*Colocasia antiquorum, Stenella colocasiae* 750
*Commelina benghalensis, Cercospora benghalensis* 753
*Costus speciosus, Pyricularia costina* 759
crops, diseases 5113
*Crotalaria juncea, Colletotrichum curvatum* 8744
*Derris trifoliata, Cochliobolus lunatus* 8843
*Eichhornia crassipes, Alternaria eichhorniae* 754
*Excoecaria agallocha*
*Pestalotiopsis* 8843
*Pestalotiopsis agallochae* 8844
groundnuts, *Aspergillus niger* 8690
guavas, *Pseudocercospora psidii* 751
*Gymnema sylvestre, Pseudocercospora gymnematis* 751
*Heritiera fomes, Fusarium pallidoroseum* 8843
*Hydrolea zeylanica, Cercospora hydroleae* 753
*Imperata arundinacea, Cochliobolus pallescens* 755
maize
*Chlamydomyces palmarum* 755
*Cochliobolus verruculosus* 755
*Momordica cochinchinensis, Alternaria cucumerina* 752
mulberries
*Chaetothyrium* 479
*Curvularia affinis* 479
mustard, *Plasmodiophora brassicae* 6234
*Mycovellosiella pithecellobii* 754
*Nauclea excelsa, Stenella naucleae* 758
*Nipa fruticans, Khuskia oryzae* 8843
onions, *Alternaria porri* 754
*Pachyrhizus angulatus, Pseudocercospora takiensis* 749
*Passiflora, Alternaria passiflorae* 754
*Pestalotia* 757
**India** *cont.*
West Bengal *cont.*
*Plumeria rubra, Stenella plumeriae* 750
*Pseudocercospora* 756
rape, *Plasmodiophora brassicae* 6234
*Rhus, Pseudocercospora rhoina* 751
rice
*Rhizoctonia solani* 917, 2081, 5965
rice tungro virus 6714
sesame, *Alternaria sesami* 752
*Sirosporium gliricidiae* 754
*Sonneratia apetala, Alternaria alternata* 8843
squashes, *Trichothecium roseum* 755
sugarcane, *Mycovellosiella sacchari* 759
*Tecoma stans, Pseudocercospora sordida* 751
*Zinnia, Alternaria zinniae* 752
*Zingiber officinale, Phoma exigua* var. *exigua* 7979
**Indian cassava mosaic bigeminivirus**
cassava
characteristics 414
reviews 1527
**Indian mustard** (*Brassica juncea*)
aflatoxins, varietal reactions 2178
*Albugo candida*
breeding 2179
control 1537, 5313
India 5310
screening 5310
seeds 4555
symptoms 3752
*Alternaria*
breeding 8513
varietal reactions 8513
*Alternaria alternata*, seeds 4555
*Alternaria brassicae*
India 5310
screening 5310
seeds 4555
*Aspergillus*
aflatoxins 3755
Bihar 3755
seeds 3755, 4555
beet curly top intergeminivirus
California 6843
transmission 6843
diseases, nomenclature 1361
*Erysiphe cruciferarum*
control 3756
Gujarat 3756
*Penicillium*, seeds 4555
*Peronospora parasitica*
control 1537
India 5310
screening 5310
turnip mosaic potyvirus, varietal reactions 5308, 8668
viruses, Sichuan 8508
***Indigofera microcarpa***
plant extracts
antibacterial agents 1240
antifungal agents 1240
***Indigofera scabra,*** *Phyllactinia verruculosa*, Yunnan 5786
**Indole,** activity, *Pseudomonas solanacearum* 3316, 6411
**Indonesia**
citrus, diseases 497
cloves, *Pseudomonas syzygii* 2417, 8829
cocoa
*Colletotrichum* 560
diseases 7871
*Glomerella cingulata* 2342
*Oncobasidium theobromae* 551, 555, 7874
*Phytophthora palmivora* 551, 7874
coffee, *Colletotrichum* 6266
forest trees, mycorrhizas 4962
*Piper nigrum, Phytophthora* 624
plant diseases, integrated control 5633
rice
diseases 5214
mycorrhizas 2507
rice tungro virus 6713
*Vanilla planifolia*
*Fusarium oxysporum* 3199
**Indonesia** *cont.*
*Vanilla planifolia cont.*
*Fusarium oxysporum* f.sp. *vanillae* 626
***Inonotus tomentosus***
forest trees
identification 3124
Ontario 3124
*Picea*
British Columbia 1717
infection 1717
***Inonotus weirii*** (*see Phellinus weirii)*
**Insecticides**
activity
blackeye cowpea mosaic potyvirus, cowpeas 8467
cucumber mosaic cucumovirus, cowpeas 8467
groundnuts, mycorrhizas 5737
control
barley yellow dwarf luteovirus, cereals 3494
*Capsicum*, leaf curl 5342
*Corticium rolfsii*, barley 2046
cotton, boll rot 5514
*Leptosphaeria maculans*, rape 7815
maize streak monogeminivirus, maize 4381-4382
okra (bhendi) yellow vein mosaic bigeminivirus, okras 5381
rice black-streaked dwarf fijivirus, rice 5205
rice stripe tenuivirus, rice 5205
soybean dwarf luteovirus, soyabeans 352
sugarbeet, viruses 8705
**Insects**
epidemiology
*Aspergillus flavus*, maize 6704
*Botryodiplodia theobromae, Mimosa pigra* 2427
interactions, *Quercus robur*, fungi 7092
transmission, barley yellow dwarf luteovirus 3494
**Integrated pest management**
Africa 2600
Central America, bibliographies 651
development, reviews 5632
ecology, reviews 5632
environmental impact 4908
grapes 4641
Indonesia, training 5633
Mexico 6389
microclimate 6623
pesticides 6431
plant diseases 1775
genetics 1776
public authorities, USA 4910
reviews 5641
Tropics 4906
***Inula viscosa***
plant extracts, antifungal agents 2483
plant oils, antifungal agents 2483
***Ipomoea batatas*** (*see* Sweet potatoes)
***Ipomoea lacunosa,*** *Colletotrichum capsici*, biological control 1188
***Ipomoea quamoclit*** (*see Quamoclit vulgaris)*
***Ipomoea setosa***
viruses
characteristics 415
Nigeria 415
***Ipomoea wolcottiana***
mycorrhizas
growth 4152
Mexico 4152
**Iprobenfos**
activity
*Metarhizium anisopliae* 7202
*Pyricularia oryzae* 8378
control, *Pyricularia oryzae*, rice 5219, 7544, 8373, 8378
fungicide tolerance, *Pyricularia oryzae* 6729
**Iprodione**
activity
adjuvants 7239
*Botrytis allii* 3297
*Botrytis cinerea* 3297, 4104, 7239
*Chalara paradoxa, Raphia* 4784
*Euphorbia pulcherrima* 4856
*Macrophomina phaseolina* 111

**Iprodione** *cont.*
activity *cont.*
*Monographella nivalis* 4104
*Pesalotiopsis funerea* 8793
*Septoria apiicola* 7239
*Ustilago zeae* 1239
control
*Alternaria alternata*
chickpeas 968
*Phaseolus vulgaris* 7610
*Alternaria linicola*, linseed 3891
*Alternaria porri*, onions 7662
*Blumeriella jaapii*, cherries 8623
*Botryodiplodia theobromae*, guavas 1615
*Botrytis allii*, onions 2175
*Botrytis cinerea*
crops 5833
cucumbers 6135
linseed 3893
peas 7616
*Ruscus hypoglossum* 3995
strawberries 6950
tomatoes 6100
*Cochliobolus sativus*, wheat 2646
*Eutypa lata*, grapes 2997
*Fusarium oxysporum* f.sp. *cepae*, onions 2175
*Glomerella cingulata*, guavas 1615
kiwifruits, storage decay 3863
*Laetisaria fuciformis*, *Lolium perenne* 931
*Leptosphaeria maculans*, rape 518
*Magnaporthe grisea*, *Stenotaphrum secundatum* 1726
mangoes
diseases 7801
postharvest decay 8656
*Mycosphaerella pinodes*, peas 7616
*Peronospora destructor*, onions 7662
*Pestalotiopsis psidii*, guavas 1615
*Phomopsis*, sunflowers 3051
*Pyrenochaeta terrestris*, onions 2175
*Pyrenophora dictyoides*, *Festuca pratensis* 6754
*Pyricularia*, wheat 2646
*Pyricularia oryzae*, rice 330
rape, diseases 2297
*Rhizoctonia solani*
*Euphorbia pulcherrima* 4856
*Lolium perenne* 931
*Phaseolus vulgaris* 6779
*Stenotaphrum secundatum* 1727
tobacco 8733
rice, diseases 7535
*Sclerotinia sclerotiorum*
cucumbers 6134
sunflowers 1627
sunflowers, diseases 4708
fungicide residues
Finland 1824
soil 1824
fungicide tolerance
*Alternaria dauci* 412, 3384
*Botrytis cinerea* 5831, 6189, 6531, 6950
*Penicillium oxalicum* 2215
seed treatment
peas 6013
*Phaseolus vulgaris* 6779
***Ips acuminatus***, transmission, stain fungi 5553
***Ips sexdentatus***, transmission, stain fungi 5553
***Ips typographus***, transmission, *Ophiostoma polonicum* 3159
**Iran**
*Agropyron*, *Ustilago hypodytes* 1470
*Alnus*, *Glomerella cingulata* 1707
apples, *Leucostoma* 1578
*Artemisia dracunculus*, *Erysiphe artemisiae* 1748
*Avicennia officinalis*, *Pleospora herbarum* 1705
barley
*Pyrenophora graminea* 2699
*Rhizoctonia solani* 1408
chickpeas, *Ascochyta rabiei* 6801
cotton, *Verticillium albo-atrum* 1675
cucumbers, *Phytophthora drechsleri* 7720
oranges, *Spiroplasma citri* 6982
**Iran** *cont.*
*Pelargonium hortorum*
*Pseudomonas cichorii* 1737
*Xanthomonas campestris* pv. *pelargonii* 1737
*Petunia hybrida*
*Phytophthora nicotianae* var. *parasitica* 1734
*Phytophthora palmivora* 1734
*Pinus*, *Lophodermium pinastri* 1714
potatoes
potato leaf roll luteovirus 6805
potato S carlavirus 6805
potato X potexvirus 6805
potato Y potyvirus 6805
rice
*Ceratobasidium oryzae-sativae* 1461
*Rhizoctonia solani* 1461
*Robinia pseudoacacia*
*Phytophthora drechsleri* 1706
*Phytophthora nicotianae* var. *parasitica* 1706
safflower, seedborne fungi 7822
sesame
mycoplasma-like organisms 1104
phyllody 1104
tomatoes
*Fusarium oxysporum* f.sp. *lycopersici* 6866
tomato mosaic tobamovirus 6859
Uredinales 6550
wheat
*Fusarium culmorum* 6672
*Fusarium proliferatum* 6672
*Tilletia* 5148, 6652
*Tilletia laevis* 6651
***Iris***
bacteria
latent infections 7125
tissue culture 7125
iris severe mosaic potyvirus
bulbs 8816
detection 8816
*Pseudomonas gladioli* pv. *gladioli*, pathogenicity 5586
*Rhizoctonia solani*, soil biology 620
***Iris ensata***
Japanese iris necrotic ring carmovirus, characteristics 7965
*Trinacrium iridis*
Honshu 1738
taxonomy 1738
**Iris severe mosaic potyvirus**
*Iris*
bulbs 8816
detection 8816
strains 184
**Irish Republic**
*Larix leptolepis*, mycorrhizas 6481
*Picea sitchensis*, mycorrhizas 4128, 6481
plant diseases, biological control 1358
plant protection, databases 129
potatoes, *Phytophthora infestans* 2833, 7642
sugarbeet, *Pythium* 1121
**Iron**
activity, *Pyrenophora graminea*, barley 5897
deficiency, lemons 3020
toxicity, rice 3658
**Irradiation**
activity
soyabeans, seedborne fungi 2105
*Verticillium dahliae* 6539
control
maize, storage decay 3595
*Penicillium aurantiogriseum*, mangoes 3021
**Irrigation**
activity
*Botryosphaeria dothidea*, pistachios 3042, 7812
*Diaporthe phaseolorum* var. *caulivora*, soyabeans 2106
*Helminthosporium solani*, potatoes 8493
*Mycosphaerella arachidis*, groundnuts 7030
*Phytophthora capsici*, *Capsicum* 1020
*Phytophthora nicotianae* var. *parasitica*, citrus 3874
**Irrigation** *cont.*
activity *cont.*
*Puccinia recondita*, wheat 5859
*Pythium aphanidermatum*, cucumbers 5372
*Verticillium dahliae*, potatoes 2843
*Xanthomonas campestris* pv. *malvacearum*, cotton 3118
**Irumamycin**, activity, fungi 31
***Isachne globosa***, rice black-streaked dwarf fijivirus, hosts 901
**Isoprothiolane**
activity
*Metarhizium anisopliae* 7202
*Pseudoperonospora cubensis* 3292
*Pyricularia oryzae* 3292
control, *Pyricularia oryzae*, rice 5219
**Israel**
almonds, *Polystigma ochraceum* 6222
carrots, carrot red leaf luteovirus 7655
citrus, *Geotrichum citri-aurantii* 2268
cotton, *Alternaria macrospora* 1673, 7893
lettuces, *Sclerotinia sclerotiorum* 7667
mangoes, *Alternaria alternata* 5448
melons, storage decay 3808
onions, postharvest decay 2860
pawpaws, dieback 3033
pesticides
nontarget effects 8117
toxicity 8117
*Pinus radiata*, decline 7940
plant diseases, control 3418, 4287
potatoes
*Alternaria solani* 2165
*Phytophthora infestans* 399
*Ruscus hypoglossum*, *Botrytis cinerea* 3995
soil, *Geotrichum citri-aurantii* 2268
sunflowers, *Puccinia helianthi* 3047
tomatoes, bacteria 7691
*Triticum dicoccoides*
*Erysiphe graminis* 8296
*Puccinia striiformis* 8296
**Italy**
*Acca sellowiana*, *Pestalotiopsis psidii* 3885
almonds
apple mosaic ilarvirus 7012
prune dwarf ilarvirus 7012
prunus necrotic ringspot ilarvirus 7012
viruses 4689
*Alnus cordata*, *Erwinia* 6299
*Alnus glutinosa*, *Erwinia* 6299
*Alstroemeria*, viruses 3190
apples
diseases 456, 1573
fungi 6918
*Venturia inaequalis* 2944
apricots
apple chlorotic leafspot virus 2236, 2969
diseases 2228
*Monilinia laxa* 2238
plum pox potyvirus 1054, 2969
prune dwarf ilarvirus 6156
prunus necrotic ringspot ilarvirus 2236, 2969
*Sphaerotheca pannosa* 2238
viruses 2237
asparagus
asparagus 2 ilarvirus 8521
asparagus 1 potyvirus 8521
bacteria 3486
*Fusarium* 8533
*Fusarium oxysporum* 8524
*Fusarium oxysporum* f.sp. *asparagi* 8523
*Gibberella fujikuroi* 8523, 8533
*Puccinia asparagi* 8530
barley
diseases 5889
*Erysiphe graminis* 2037
*Pyrenophora graminea* 3582
*Ustilago segetum* var. *nuda* 2691
barley yellow dwarf luteovirus 2591
*Capsicum*, *Xanthomonas campestris* pv. *vesicatoria* 2911
*Carduus pycnocephalus*, diseases 2421

**Italy** *cont.*
carrots
*Fusarium solani* 4532
*Gibberella avenacea* 4532
*Catharanthus roseus*, mycoplasma-like organisms 4265
cereals, viruses 2620
chestnuts, *Cryphonectria parasitica* 4795, 6227-6228
chickpeas, *Ascochyta rabiei* 4496
chicory, tomato spotted wilt tospovirus 2876
chrysanthemums
*Alternaria alternata* 3186
chrysanthemum stunt viroid 3181
*Fusarium oxysporum* 3186
citrus, *Deuterophoma tracheiphila* 4673
crops
cucumber mosaic cucumovirus 2610
diseases 1794
cucumbers
*Erysiphe cichoracearum* 2919
*Sphaerotheca fuliginea* 2919
Cucurbitaceae, bacteria 3486
*Cupressus*
detergents 3167
*Seiridium cardinale* 3985
*Cupressus sempervirens*, *Seiridium cardinale* 1721
Endogonaceae 3346
faba beans, bean yellow mosaic potyvirus 3681
flax, *Fusarium oxysporum* f.sp. *lini* 1678
forest trees
*Cryphonectria parasitica* 4795
decline 2380
fruit, diseases 6139
globe artichokes, bacteria 3486
grapes
*Agrobacterium tumefaciens* 6192
diseases 456, 6139, 6955
fungicide residues 6179
grapevine fanleaf nepovirus 8631
grapevine labile rod-shaped virus 4645
mycoplasma-like organisms 3856, 6956
*Plasmopara viticola* 2990, 6180
yellows 2985
greenhouse crops, diseases 1359
hazelnuts, *Xanthomonas campestris* pv. *corylina* 3888
*Hebeloma* 2550
*Hordeum murinum*, *Erysiphe graminis* 2037
impatiens necrotic spot virus 5123, 8202
*Juniperus phoenicea*, *Vararia maremmana* 764
*Kalanchoë*, *Oidium calanchoeae* 6348
kiwifruits
crown rot 2259
diseases 489
mycorrhizas 1859-1860
lettuces
mycoplasma-like organisms 6852
*Pythium tracheiphilum* 6084
viruses 6852
maize, maize rough dwarf fijivirus 2709
marrows
*Erysiphe cichoracearum* 2919
*Pseudomonas syringae* pv. *lachrymans* 2923-2924
*Sphaerotheca fuliginea* 2919
melons, *Sphaerotheca fuliginea* 2919
*Nerium oleander*, *Phoma exigua* var. *heteromorpha* 2405
olives, olive latent II virus 6244
onions, *Peronospora destructor* 4547
orchards, integrated pest management 2929
ornamental plants
air pollution 7950
diseases 5588
ornamental woody plants, viruses 3993
parsley, strawberry latent ringspot nepovirus 3201, 6351
*Paulownia tomentosa*, cucumber mosaic cucumovirus 3169
peaches
*Agrobacterium tumefaciens* 471
*Phomopsis amygdali* 4631

**Italy** *cont.*
peaches *cont.*
plum pox potyvirus 2969
silver leaf 4630
*Sphaerotheca pannosa* 7758
*Taphrina deformans* 7760
viruses 1587
*Xanthomonas campestris* pv. *pruni* 3848
pears
*Alternaria alternata* 3816
diseases 456, 465
fungicide residues 3831
pesticides, residues 8116
*Phaseolus vulgaris*, viruses 3683
*Pinus halepensis*, *Phellinus pini* 4834
plant diseases, legislation 3321
plant protection 1193
plums
plum pox potyvirus 1054, 2969
*Xanthomonas campestris* pv. *pruni* 3841, 5405
*Populus*
*Marssonina brunnea* 3138
*Rosellinia necatrix* 584
*Populus tremula*, *Melampsora populnea* 3126
*Primula palinuri*, cucumber mosaic cucumovirus 3180
*Quercus*
decline 4802, 8772
mycorrhizas 2491
*Quercus cerris*, *Tubakia dryina* 7912
*Quercus ilex*, air pollution 4804
rape, *Alternaria alternata* 2294
rice, air spora 3639
soil, fungicide residues 6179
sugarbeet
beet necrotic yellow vein furovirus 3089
*Cercospora beticola* 2335, 3922-3924
sunflowers
*Alternaria helianthi* 4709
diseases 521
*Tamus communis*, tamus red mosaic potexvirus 4891
tobacco, tobacco mosaic tobamovirus 4758
tomato spotted wilt tospovirus 5123, 8202
tomatoes
bacteria 3486
diseases 2882, 6857
*Fusarium oxysporum* f.sp. *radicis-lycopersici* 5340
pittosporum vein yellowing nucleorhabdovirus 3770
*Pseudomonas syringae* pv. *tomato* 3778
tomato mosaic tobamovirus 4575
tomato yellow leaf curl bigeminivirus 2893, 5330
trees, diseases 7955
walnuts
diseases 514
*Pseudomonas syringae* pv. *avellanae* 3039
weeds, cucumber mosaic cucumovirus 2610
wheat
*Fusarium culmorum* 2648, 2682
*Puccinia striiformis* 4333
*Zantedeschia aethiopica*, tomato spotted wilt tospovirus 4872
**Itraconazole**, activity, *Penicillium italicum* 1815
***Jacaranda acutifolia***, *Phytophthora cinnamomi*, antagonists 5455
**Jack pine** (*see Pinus banksiana*)
**Jamaica**
*Anthurium*, *Xanthomonas campestris* pv. *diffenbachiae* 2410
coconuts, diseases 5468
sugarcane
*Puccinia melanocephala* 7040
*Ustilago scitaminea* 7040
**Jaoantong**, control, *Xanthomonas campestris* pv. *citri*, citrus 5446
**Japan**
*Acer buergerianum*, *Pseudomonas syringae* pv. *aceris* 7109

**Japan** *cont.*
*Actinidia*, *Pseudomonas syringae* pv. *actinidiae* 8640
*Actinidia arguta*
*Pseudomonas syringae* pv. *actinidiae* 8639
*Pseudomonas syringae* pv. *syringae* 8639
*Allium chinense*, *Fusarium* 7660
*Allium tuberosum*, *Erwinia carotovora* subsp. *carotovora* 6841
apple stem grooving capillovirus, quarantine 3838
apples, diseases 7730
barley, *Gibberella zeae* 8260
barley mild mosaic bymovirus 5074
cabbages, *Plasmodiophora brassicae* 5311
cowpeas, *Xanthomonas campestris* 939
crops, viruses 2567
cucumbers, *Pseudomonas syringae* pv. *lachrymans* 454, 2922
*Delphinium*, *Rhizoctonia solani* 5578
*Digitaria microbachne*, *Claviceps amamiensis* 2758
*Doritaenopsis*, *Nectria haematococca* 8818
*Eutrema wasabi*, wasabi latent virus 5596
fungicides, information 22
*Gerbera jamesonii*, *Phytophthora cryptogea* 7963
Gramineae
barley yellow dwarf luteovirus 3661
endophytes 3661
grapes, *Botrytis cinerea* 6190
*Gypsophila paniculata*, *Phytophthora nicotianae* var. *parasitica* 5576
kiwifruits, *Pseudomonas syringae* pv. *actinidiae* 8640
*Lagenaria siceraria*, *Monosporascus cannonballus* 8599
lawns and turf, diseases 3175
*Lilium*, lily X potexvirus 4006
maize, diseases 5912
melons, melon necrotic spot carmovirus 7708
oranges, satsuma dwarf nepovirus 3014
Orchidaceae, viruses 7972
ornamental bulbs, viruses 7972
ornamental plants, diseases 3178
*Papaver nudicaule*, turnip mosaic potyvirus 7959
*Paspalum*
*Claviceps paspali* 5981
*Claviceps queenslandica* 5981
pawpaws, postharvest decay 7806
peaches, *Botryosphaeria berengeriana* f.sp. *persicae* 8624
pears, *Venturia pirina* 1052, 2963-2964, 7744
*Perilla frutescens*, *Corynespora cassiicola* 7145-7146
pesticides
directories 6417
legislation 5677
usage 5677
*Phalaenopsis*, *Nectria haematococca* 8818
*Phaseolus vulgaris*, clover yellow vein potyvirus 8436
*Physalis alkekengi*, tobacco mosaic tobamovirus 5570
*Phytophthora infestans*, isoenzymes 3361
plant diseases, control 4289
plums, brown rot 5403
*Populus*, *Rosellinia necatrix* 7920
*Portulaca*, *Rhizoctonia solani* 5579
potatoes
*Phytophthora infestans* 8488
potato Y potyvirus 6811
pumpkins
*Fusarium oxysporum* f.sp. *lagenariae* 8600
*Pseudomonas solanacearum* 8603
radishes
*Peronospora parasitica* 2180
*Pseudocercosporella capsellae* 6837
rice
diseases 5941
fungicides 5955

**Japan** *cont.*
rice *cont.*
*Pyricularia oryzae* 1452, 2076, 6728
*Ruscus, Pseudomonas andropogonis* 7141
soil, *Pythium* 8171
soyabeans
*Corticium rolfsii* 357
*Xanthomonas campestris* 939
sugarbeet
*Botrytis cinerea* 8712
*Penicillium expansum* 8712
tomatoes
alfalfa mosaic alfamovirus 8547
cucumber mosaic cucumovirus 6091
*Fusarium oxysporum* f.sp. *lycopersici* 5334
tulips
*Pseudomonas andropogonis* 7970
*Pseudomonas gladioli* 7970
*Vigna radiata, Xanthomonas campestris* 939
water, pesticide residues 3303
weeds, clover yellow vein potyvirus 8436
wheat
*Gibberella zeae* 8260
*Sclerophthora macrospora* 5172
*Zingiber mioga, Pyricularia zingiberi* 8827
*Zingiber officinale, Pyricularia zingiberi* 8827
Hokkaido
Coniferae, *Racodium therryanum* 6300
maize, *Erwinia chrysanthemi* pv. *zeae* 6705
*Phaseolus vulgaris*, soybean dwarf luteovirus 6776
*Picea jezoensis, Racodium therryanum* 6319
potatoes, *Phytophthora infestans* 6817
rice, *Pseudomonas syringae* pv. *oryzae* 6748
soyabeans, soybean dwarf luteovirus 6762
sugarbeet, *Colletotrichum dematium* f.sp. *spinaciae* 1649
*Trifolium repens*, soybean dwarf luteovirus 6757
Honshu
*Allium fistulosum, Puccinia allii* 2174
asparagus, *Phomopsis* 7670-7671
aubergines, *Pseudomonas solanacearum* 7697
*Chamaecyparis obtusa*, canker 4851
*Chlorophytum comosum, Corticium rolfsii* 5577
crops, viruses 1933
cucumbers, *Pseudoperonospora cubensis* 5377
*Delphinium elatum, Corticium rolfsii* 5577
*Eutrema wasabi*, black leg 5595
figs, *Sphaceloma* 7793
*Iris ensata, Trinacrium iridis* 1738
lawns and turf
diseases 5566
*Pythium aristosporum* 2408
pears, *Glomerella cingulata* 6934
potatoes, *Rhizoctonia solani* 5293
*Pseudoperonospora cubensis* 5376
rice
*Alternaria* 5210
*Cladosporium* 5210
*Curvularia* 5210
*Fusarium* 5210
*Nigrospora* 5210
*Phoma* 5210
*Pseudomonas syringae* pv. *oryzae* 7563
*Pyricularia oryzae* 5220, 6723-6727, 6730
rice stripe tenuivirus 5206
soil
mycorrhizas 7296
*Pythium aristosporum* 2408
*Solidaster luteus, Corticium rolfsii* 5577
soyabeans, soybean dwarf luteovirus 6763

**Japan** *cont.*
Honshu *cont.*
strawberries
*Colletotrichum acutatum* 5422-5423
*Corticium rolfsii* 5421
*Glomerella cingulata* 5423
tomatoes, diseases 5335
Kyushu
apples
*Alternaria alternata* 1575
*Botrytis cinerea* 1575
*Diplocarpon mali* 1575
*Venturia inaequalis* 1575
asparagus, *Rhizoctonia solani* 1544
*Chamaecyparis obtusa*, canker 4851
Chinese cabbages, *Plasmodiophora brassicae* 1536
loquats, diseases 1611
mulberries, *Phloeospora maculans* 6954
onions, *Botrytis* 6840
rice
*Pseudomonas plantarii* 6747
*Pyricularia oryzae* 6721
*Rhizoctonia solani* 1458
soil, *Aspergillus flavus* 8168
strawberries, *Glomerella cingulata* 1590
sugarcane
*Puccinia* 7041
*Puccinia melanocephala* 7041
water chestnuts, *Corticium rolfsii* 1613
wheat, *Erysiphe graminis* 6654
*Zingiber mioga, Pythium zingiberum* 7149
**Japanese black pine** (*see Pinus thunbergii*)
**Japanese iris necrotic ring carmovirus,** *Iris ensata*, characteristics 7965
**Japanese larch** (*see Larix leptolepis*)
***Jasminum nudiflorum***
*Pseudomonas syringae* pv. *savastanoi*
IAA 6410
strains 6410
***Jatropha villosa,*** plant extracts, antifungal agents 2813
***Javesella pellucida,*** transmission, brome mosaic bromovirus 4373
**Jerusalem artichokes** (*Helianthus tuberosus*)
*Coleosporium helianthi*
Georgia 5302
screening 5302
*Erysiphe cichoracearum*
Georgia 5302
screening 5302
*Puccinia helianthi*
Georgia 5302
screening 5302
**Jinggangmycin**
control
*Rhizoctonia solani*, wheat 4353
*Ustilaginoidea virens*, rice 3649
**Jingganmycin**
control
*Rhizoctonia solani*, rice 5945
*Xanthomonas oryzae* pv. *oryzae*, rice 5945
*Xanthomonas oryzae* pv. *oryzicola*, rice 5945
**Jkstein,** control, *Camptomeris albizziae, Albizia lebbek* 8780
**Johnson grass** (*see Sorghum halepense*)
**Johnsongrass mosaic potyvirus**
coat proteins 7410
maize, cytology 296
*Pennisetum americanum*
Queensland 8359
varietal reactions 8359
taxonomy 188
***Juglans cinerea,*** *Sirococcus clavigignenti-juglandacearum*, Ontario 586
***Juglans regia*** (*see* Walnuts)
***Juncus***
fungi
endophytes 3982
infection 3982
Oregon 3982

***Juniperus***
*Coniothyrium sporulosum*
environmental factors 2404
spore germination 2404
*Kabatina*, varietal reactions 3122
*Phomopsis*, varietal reactions 3122
***Juniperus monosperma,*** mycorrhizas, parasitic plants 1849
***Juniperus phoenicea***
*Vararia maremmana*
Italy 764
taxonomy 764
***Juniperus scopulorum,*** *Botryosphaeria stevensii*, Iowa 4822
**Jute** (*Corchorus capsularis* and *C. olitorius*)
*Coniothyrium fuckelii*, Assam 3400
diseases, biological control 815
*Fusarium solani*, mycorrhizas 4145
*Glomus macrocarpum*
mycorrhizas
diseases 4145
growth 4145
nitrogen fixation 4145
*Macrophomina phaseolina*
fertilizers 8743
sclerotia 1140
taxonomy 1140
varietal reactions 7900, 8743
***Kabatiella apocrypta,*** *Quercus robur*, insects 7092
***Kabatiella caulivora***
*Trifolium pratense*
culture media 3670
environmental factors 3670
inoculation 3670
*Trifolium subterraneum*, host parasite relationships 2770
***Kabatina,*** *Juniperus*, varietal reactions 3122
***Kabatina mahoniae***
*Mahonia repens*
Colorado 1177
taxonomy 1177
***Kalanchoë,*** *Oidium calanchoeae*, Italy 6348
***Kalanchoë daigremontiana***
*Agrobacterium tumefaciens*
host parasite relationships 1741
plant growth regulators 1741
**Kaolin,** activity, tobacco, viruses 3930
**Karathane,** fungicide tolerance, *Sphaerotheca fuliginea* 4601
***Karstenula rhodostoma,*** taxonomy 3409
**Kasugamycin**
activity, *Septoria apiicola* 7248
control, *Pyricularia oryzae*, rice 5219, 8378
**Kazakhstan**
apples, *Podosphaera leucotricha* 2955
cereals, Hyphomycetes 4217
cotton, *Stemphylium macrosporioideum* 2362
Gramineae, *Pyrenophora tritici-repentis* 2624
oats, *Puccinia coronata* 3588
*Pinus, Sydowia polyspora* 1713
*Pinus sylvestris*
*Cronartium flaccidum* 4828
*Endocronartium pini* 4828
*Heterobasidion annosum* 4828
*Phellinus pini* 4828
plant diseases
forecasting 783
models 783
**Kejunzhang,** control, *Xanthomonas oryzae* pv. *oryzae*, rice 7559
**Kenaf** (*Hibiscus cannabinus*)
*Colletotrichum hibisci*, varietal reactions 577
cucumber mosaic cucumovirus, China 4785
*Pseudomonas solanacearum*
China 5520
seeds 5520
**Kenya**
bananas, *Mycosphaerella fijiensis* 4660
barley
*Magnaporthe grisea* 6688
*Rhynchosporium secalis* 8333
coffee
*Glomerella cingulata* 4734, 5490-5491, 6268, 7864
*Hemileia vastatrix* 4734

**Kenya** *cont.*
maize, *Puccinia sorghi* 4395
*Phaseolus vulgaris, Phaeoisariopsis griseola* 3685
pigeon peas, *Mycovellosiella cajani* 8464
*Triticum dicoccoides*
*Erysiphe graminis* 8296
*Puccinia striiformis* 8296
wheat
*Magnaporthe grisea* 6688
*Puccinia striiformis* 8295
**Keto-putrescine**
activity, plant pathogenic fungi 6450
control
*Botrytis fabae*, faba beans 8256
*Erysiphe graminis*, barley 8256
*Puccinia hordei*, barley 8256
*Uromyces viciae-fabae*, faba beans 8256
**Ketoconazole,** activity, *Penicillium italicum* 1815
***Khuskia oryzae***
cotton
lint 2361
reviews 2361
*Nipa fruticans*, West Bengal 8843
rice, endophytes 3640
***Kirramyces, Eucalyptus***, taxonomy 1697
**Kiwifruits** (*Actinidia deliciosa*)
bacteria, ringing 6972
*Botrytis cinerea*
biological control 7791
control 3864, 4656, 7792
storage 3864, 4656, 6195, 7792
*Cochliobolus spicifer*
Greece 5429
postharvest decay 5429
crown rot
control 2259
Italy 2259
decline
flooding 491
New Zealand 491
soil structure 491
diseases
control 8641
Italy 489
*Glomus*, mycorrhizas, Italy 1859-1860
*Glomus etunicatum*, mycorrhizas, Nematoda 1262
*Phytophthora cryptogea*
roots 4655
waterlogging 4655
postharvest decay, control 1597
*Pseudomonas syringae*, California 5430
*Pseudomonas syringae* pv. *actinidiae*
Japan 8640
symptoms 8639
*Pseudomonas viridiflava*
California 5430
frost injury 6197
ice nucleation 6197
*Sclerotinia sclerotiorum*
environmental factors 8637
New Zealand 7789, 8637
sclerotia 7790
survival 7789
storage decay
biological control 7428
control 3002, 3863
mineral oils 7794
reviews 3001
***Kloeckera apiculata***
citrus
Argentina 502
postharvest decay 502
***Koelreuteria elegans, Bulbouncinula bulbosa***, Taiwan 7373
**Kohlrabi** (*Brassica oleracea* var. *gongylodes*)
diseases, surfactants 6842
*Xanthomonas campestris* pv. *campestris*
amino acids 1003
enzymes 5316
proteins 1003
varietal reactions 1003, 5316
**Kojic acid**
activity
*Fusarium oxysporum* 3291
*Pythium graminicola* 3291
*Rhizoctonia solani* 3291
***Koleroga noxia***
coffee
control 7862, 7866
cultures 7867
Karnataka 7862, 7867
**Korea Republic**
barley, rice black-streaked dwarf fijivirus 901
*Capsicum*
*Colletotrichum coccodes* 7704
*Phytophthora capsici* 1021, 7703
*Cassia mimosoidea*, mycorrhizas 7303
Chinese cabbages, *Aphanomyces raphani* 2181
*Corydalis ochotensis, Sphaerotheca koreana* 6553
*Digitaria sanguinalis*, rice black-streaked dwarf fijivirus 901
*Echinochloa frumentacea*, rice black-streaked dwarf fijivirus 901
forest trees, diseases 8759
groundnuts, *Didymosphaeria arachidicola* 8683
horticultural crops, mycorrhizas 7304
maize, rice black-streaked dwarf fijivirus 901
*Miscanthus sinensis*, mycorrhizas 7303
peaches, *Sphaerotheca pannosa* 4629
rice
*Pyricularia oryzae* 4416
*Rhizoctonia solani* 4416
rice black-streaked dwarf fijivirus 322
seedborne fungi 3638
sesame
*Fusarium* 1107
*Pythium* 1107
soil, *Acaulospora scrobiculata* 7307
soyabeans, *Corynespora cassiicola* 5252
*Themeda triandra*, mycorrhizas 7303
wheat, rice black-streaked dwarf fijivirus 901
***Kretzschmaria clavus, Macadamia***, decline 7814
***Kriegeria eriophori***
Cyperaceae
life cycle 1758
taxonomy 1758
***Krombholziella,*** trees, mycorrhizas 2501
**Kumquats,** mycorrhizas, soil management 4141
**Kyrgyzstan**
sugarbeet
beet necrotic yellow vein furovirus 8708
*Polymyxa betae* 8708
**L1700,** activity, *Erysiphe graminis*, wheat 3511
***Lablab niger*** (*see Lablab purpureus*)
***Lablab purpureus***
*Fusarium solani*, environmental factors 4505
*Pythium middletonii*, environmental factors 4505
***Labyrinthomyces,*** taxonomy 706
***Laccaria, Quercus rubra***, mycorrhizas 697
***Laccaria amethystina***
*Arbutus unedo*, mycorrhizas 4967
rhizomorphs 4970
***Laccaria bicolor***
laboratory tests
aluminium 5707-5708
pH 5707
*Picea mariana*, mycorrhizas 8123, 8126
*Pinus banksiana*, mycorrhizas 6470, 8123, 8126
*Pseudotsuga menziesii*, mycorrhizas 7294
***Laccaria laccata***
laboratory tests, pesticides 4124
physiology, enzymes 8128
*Picea abies*, mycorrhizas 1166
*Pinus patula*, mycorrhizas 6476
*Pinus sylvestris*, mycorrhizas 6471
*Pseudotsuga menziesii*, mycorrhizas 89, 695, 699
***Laccaria proxima***
*Betula pendula*, mycorrhizas 4133
landfills, mycorrhizas 3328
*Picea mariana*, mycorrhizas 8126
*Pinus banksiana*, mycorrhizas 8126
***Laccaria trichodermophora, Quercus costaricensis***, mycorrhizas 7289
***Lactarius***
Manitoba 8132
Northwest Territories 8132
***Lactarius deliciosus,*** culture media, growth 4138
***Lactarius dryadophilus***
distribution 8131
ecology 8131
taxonomy 8131
***Lactarius hepaticus***
laboratory tests
aluminium 5707-5708
pH 5707
***Lactarius rufus***
laboratory tests
aluminium 5707-5708
pH 5707
***Lactarius scrobiculatus, Picea abies***, mycorrhizas 5709
***Lactuca,*** beet western yellows luteovirus, genetics 6851
***Lactuca sativa*** (*see* Lettuces)
***Lactuca serriola, Bremia lactucae***, Himachal Pradesh 3392
***Lactuca sibirica, Puccinia minussensis***, host parasite relationships 7164
***Laetisaria arvalis***
antagonism, *Rhizoctonia solani* 7343
control
*Pythium*, tulips 618
*Rhizoctonia solani*
crops 1968
soil 1968
***Laetisaria fuciformis, Lolium perenne***, control 931
***Lagenaria siceraria***
cucumber green mottle mosaic tobamovirus
characteristics 1029
Saudi Arabia 1029
*Monosporascus cannonballus*
Japan 8599
pathogenicity 8599
mycoplasma-like organisms, electron microscopy 5361
*Sphaerotheca fuliginea*, fungicide tolerance 4601
watermelon mosaic 2 potyvirus, induced resistance 5364
***Lagerstroemia parviflora,*** plant extracts, antifungal agents 2733
**Landfills,** mycorrhizas, reclamation 3328
***Lantana,*** plant extracts, antifungal agents 6999
***Lantana camara***
*Mycosphaerella herbarum*, India 3403
plant extracts, antifungal agents 2481, 2813, 6462
***Lanzia***
*Festuca arundinacea*
cultural methods 932
varietal reactions 932
***Laodelphax striatella***
transmission
brome mosaic bromovirus 4373
maize rough dwarf fijivirus 2709
rice black-streaked dwarf fijivirus 901, 5205
rice stripe tenuivirus 5205, 7528, 8367
**Larch** (*see Larix*)
***Larix decidua***
decline, Switzerland 6302
*Russula ochroleuca*, mycorrhizas, morphology 6478
*Trichoscyphella willkommii*, Switzerland 1720
***Larix kaempferi*** (*see Larix leptolepis*)
***Larix leptolepis***
*Ceratocystis picea*, infection 3165
mycorrhizas
enzymes 6481
Irish Republic 6481
*Racodium therryanum*
Hokkaido 6300
susceptibility 6300
***Lathyrus annuus,*** pea seed-borne mosaic potyvirus, seeds 2772
***Lathyrus ochrus,*** pea seed-borne mosaic potyvirus, seeds 2772
***Lathyrus odoratus*** (*see* Sweet peas)

***Lathyrus pratensis***
mycorrhizas
ecology 8143
growth 8144
nutrient uptake 8144
***Lathyrus sativus,*** pea seed-borne mosaic potyvirus, seeds 2772
**Latin America**
oil palms, diseases 3058
plant protection, information 3
*Stylosanthes, Glomerella cingulata* 6759
**Latvia**
apples, storage decay 1580
barley, diseases 826
carnations, *Phialophora cinerescens* 616
cucumbers, viruses 6132
oats, diseases 826
*Picea abies*, diseases 2389
*Pinus sylvestris*
diseases 2389
*Heterobasidion annosum* 1709
*Lophodermium pinastri* 1710
potatoes
diseases 2832
storage decay 1502
***Laurus nobilis***
diseases
biochemistry 5122
physiology 5122
plant extracts, antifungal agents 2483
plant oils, antifungal agents 2483
**Lawns and turf**
diseases
control 3175, 6335
Honshu 5566
integrated control 6332
Japan 3175
research 6335
USA 6332
*Monographella nivalis*
control 2409
Washington 2409
pesticides, books 5660
*Pythium aristosporum*, Honshu 2408
***Lawsonia inermis,*** plant extracts, antiviral agents 7057
**Leaf beets** (*see* Spinach beets)
**Leeks** (*Allium porrum*)
fungicide residues, determination 6435
*Glomus*
mycorrhizas
detection 4159
infection 4159
phosphorus 4169
roots 4169
ultrastructure 3339
*Glomus versiforme*, mycorrhizas, ultrastructure 3339
pesticide residues, analysis 1228
*Phytophthora porri*, isolates 3749
*Puccinia allii*
control 6604
varietal reactions 3745
**Legislation**
pesticide residues, Chile 2459
plant diseases
China 4115
Europe 2487, 3321, 4115
Finland 2487
France 2486
Germany 2487, 3321
Italy 3321
Poland 2487
Spain 2487
Sweden 2487
Turkey 2485
USSR 2487
plant protection 5635
Europe 7278
**Leguminosae**
broad bean stain comovirus, immunodiagnosis 4279
*Cerotelium*, taxonomy 362
*Colletotrichum*, reviews 6614
cucumber mosaic cucumovirus
host range 1335
strains 1335
symptoms 1335
diseases, mycorrhizas 1956
geminiviruses
India 350
**Leguminosae** *cont.*
geminiviruses *cont.*
serology 350
*Glomus intraradices*, mycorrhizas, susceptibility 8141
*Glomus mosseae*, mycorrhizas, susceptibility 8141
mycorrhizas 1841
interactions 1956
reviews 1847
*Phakopsora*, taxonomy 362
*Physopella*, taxonomy 362
red clover mottle comovirus, immunodiagnosis 4279
viruses
Brazil 183
Taiwan 2776
taxonomy 183
***Lemna minor***
*Alternaria alternata*, toxins 6363
*Gibberella fujikuroi*, toxins 6363
**Lemons** (*Citrus limon*)
citrus exocortis viroid, elimination 4663
*Deuterophoma tracheiphila*
biochemistry 5122
*in vitro* selection 6991
physiology 5122
toxins 6991
varietal reactions 2263
diseases, Republic of Georgia 503
mineral deficiencies, Spain 3020
*Penicillium digitatum*
phytoalexins 4676
postharvest decay 4676
*Penicillium ulaiense*
California 6989
postharvest decay 6989
*Phytophthora citrophthora*, seasonal variation 8652
*Phytophthora nicotianae* var. *parasitica*, seasonal variation 8652
plant extracts, antifungal agents 904
storage decay, biological control 7428
viruses, elimination 4663
***Lens culinaris*** (*see* Lentils)
***Lens esculenta*** (*see* Lentils)
**Lentils** (*Lens culinaris*)
*Ascochyta fabae* f.sp. *lentis*
control 4488, 7618
Saskatchewan 4488
seeds 4488
spread 4488
*Corticium rolfsii*
biological control 232
India 232
*Epicoccum nigrum*, Hungary 3699
*Fusarium oxysporum*
biological control 232
cytology 373
India 232
infection 373
*Pleospora tarda*, Hungary 3699
*Rhizoctonia solani*
biological control 232
India 232
Pakistan 3698
*Uromyces viciae-fabae*
genetics 4486-4487
selection 6795
varietal reactions 4486
viruses
New Zealand 8423
seeds 5988
Syria 3697, 5988
***Lentinula edodes,*** viruses, RNA 8834
***Lenzites betulina,*** forest trees, Taiwan 2378
***Lepidium sativum*** (*see* Cress)
***Lepidothamnus fonkii***
mycorrhizas
Chile 5702
morphology 5702
***Leptadenia***
*Cercospora leptadeniana*
India 6552
taxonomy 6552
***Leptinella dioica,*** *Rhizoctonia*, New Zealand 5237
***Leptocorisa acuta***
epidemiology, *Sarocladium oryzae*, rice 2082, 2747, 8383
***Leptocorisa acuta*** *cont.*
transmission, *Tolyposporium ehrenbergii* 312
***Leptographium procerum***
*Pinus strobus*
pathogenicity 8788
vectors 4837
Virginia 4837
***Leptographium wageneri***
*Pseudotsuga menziesii*
British Columbia 6324
vectors 6324
***Leptographium wingfieldii***
*Pinus sylvestris*
bark beetles 1164
pathogenicity 600, 1708
phenolic compounds 1164
temperature 599
***Leptosphaeria,*** Rosaceae, taxonomy 3407
***Leptosphaeria avenaria***
wheat
control 4345
rotations 3472
Saskatchewan 3472
Siberia 4345
tillage 3472
USSR 6659
***Leptosphaeria korrae***
*Cynodon dactylon*
nitrogen 1725
potassium 1725
***Leptosphaeria maculans***
*Brassica*
glucosinolates 2865
resistance 2865
Cruciferae, reviews 6080
horticultural crops, Denmark 5839
laboratory tests, sesquiterpenoid lactones 4951
molecular genetics
karyotypes 7324
nucleotide sequences 5463, 8511
pathogenicity 7324, 8511
pathotypes 5463
rape
biological control 5117
Canada 1625
control 518, 2296-2297, 4698-4699, 7815, 8671
detection 5463
enzymes 1538
epidemiology 2296
estimation 6232
Germany 2296
host parasite relationships 1091, 1538
inoculation 4701
insects 7815
molecular genetics 7014
pathogenesis-related proteins 7014
pathotypes 1625
seeds 518
sporulation 7015
Switzerland 4698
temperature 1091
UK 2297, 8671
yield losses 1090, 2296
sarson
heat shock proteins 4704
strains 4704
***Leptosphaeria nodorum***
barley
seeds 6636
varietal reactions 2701
cereals, control 3502
laboratory tests, flubenzimine 2465
molecular genetics
DNA fingerprinting 2015
fungicide tolerance 4183
nucleotide sequences 4183
restriction fragment length polymorphism 2015
morphology, reproductive organs 5875
triticale
epidemiology 8341
testing 8341
varietal reactions 8343
wheat
abscisic acid 3545
Brazil 8283
breeding 3506, 4307, 7474

***Leptosphaeria nodorum** cont.*
wheat *cont.*
control 268, 1387, 2016, 3515, 3519, 4343, 4345, 6660, 7457, 7470, 7473
Croatia 3513
crop residues 8283
detection 1375, 7476
environmental factors 4344
enzymes 4312
epidemiology 831, 2647
Finland 1387
forecasting 8269
fungicides 6640
genetics 3507
genotype mixtures 1991
Germany 4311, 7457
growth stages 1398
heterochromatin 5156
heterothallism 7471
immunodiagnosis 8310
induced mutations 267
infection 4342
inoculation 1398
intensive cropping 4311
Manitoba 5874
mixed infections 3517
Netherlands 2016
New York 6658
nitrogen 2647, 5876
ozone 831, 4342
rain 7470
resistance 4341, 5156
rotations 269, 3472
Saskatchewan 269, 3472
seeds 1375, 2017, 4312, 6636, 6658, 6660
selection 267, 2675, 3544
sexual reproduction 4344
Siberia 4345
storage 2017
survival 8283
Sweden 7470
Switzerland 8269
Tanzania 8311
tillage 3472
USSR 6659
varietal reactions 269, 2647, 3507, 3545, 4341, 5874, 8311
yield losses 5874
***Leptosphaeria opuntiae**, Opuntia*, taxonomy 1915
***Leptosphaeria sacchari**,* sugarcane, Cuba 2329
***Leptosphaeria salvinii** (see Magnaporthe salvinii)*
***Leptosphaerulina crassiasca***
groundnuts
host parasite relationships 7837
infection 7837
***Leptosphaerulina trifolii***
*Trifolium repens*, North Carolina 2096
*Vigna umbellata*, Sikkim 8470
***Leptostroma**,* bamboos, Philippines 4890
***Leptostroma pinastri**, Pinus radiata*, Spain 596
***Leptotrochila medicaginis***
lucerne
infection 2764
relative humidity 2764
spore germination 2764
***Leptoxyphium fumago***
mangoes
control 1610
Uttar Pradesh 1610
*Rhododendron arboreum*, Himachal Pradesh 7926
**Lesotho**
*Pennisetum americanum, Fusarium* 5038
soil, *Fusarium* 5038
sorghum, *Fusarium* 5038
***Lespedeza bicolor***
*Cladosporium vignae*
taxonomy 769
USA 769
**Lettuce infectious yellows virus**
*Cucumis prophetarum*, varietal reactions 5352
melons, varietal reactions 5352
**Lettuce mosaic potyvirus**
lettuces
genetics 4558
immunodiagnosis 4559
seeds 4559
Turkey 4559
molecular genetics
coat proteins 802
nucleotide sequences 802
peas, Jiangsu 8452
reviews 1004
*Sinapis arvensis*
immunodiagnosis 4559
seeds 4559
Turkey 4559
**Lettuces** (*Lactuca sativa*)
beet western yellows luteovirus, genetics 6851
big vein
hosts 3491
transmission 3491
*Bremia lactucae*
Austria 4562
breeding 4560
control 4563-4564
France 4564
genetics 811, 1005
host parasite relationships 811, 2874
molecular genetics 2605, 3759, 4561
races 4562
reviews 6083
varietal reactions 2873
damping off, biological control 228
diseases
control 4904, 6853
hydroponics 6853
resistance 5842
fungicide residues 1830
*Fusarium oxysporum* f.sp. *lactucum*
California 8519
taxonomy 8519
*Glomus fasciculatum*
mycorrhizas
colonization 1264
enzymes 1264
lettuce mosaic potyvirus
genetics 4558
immunodiagnosis 4559
seeds 4559
Turkey 4559
mycoplasma-like organisms, Italy 6852
pesticide residues, Germany 2472
*Pyrenochaeta lycopersici*, France 1006
*Pythium*
control 7251
seed treatment 7251
*Pythium tracheiphilum*, Italy 6084
*Rhizoctonia solani*
anastomosis groups 2184
biological control 1968
isolates 2184
Ohio 2184
*Rhizomonas suberifaciens*
Florida 4565
rotations 4565
rhizosphere fungi, Russia 427
ring necrosis
control 7666
hydroponics 7666
vectors 7666
*Sclerotinia minor*, biological control 2875
*Sclerotinia sclerotiorum*
biological control 3469, 8504
Israel 7667
survival 7667
tipburn
pH 8520
potassium 8520
storage 1543
temperature 1543
tobacco streak ilarvirus
Florida 421
immunodiagnosis 421
viruses, Italy 6852
***Leucadendron**, Phytophthora cinnamomi*, control 6330
***Leucaena esculenta***
*Glomus*
mycorrhizas
growth 3344
***Leucaena esculenta** cont.*
*Glomus cont.*
mycorrhizas *cont.*
Mexico 3344
*Glomus versiforme*
mycorrhizas
growth 3344
Mexico 3344
***Leucaena latisiliqua***
*Endoconospora indica*
Tamil Nadu 7375
taxonomy 7375
***Leucaena leucocephala***
*Acaulospora muricata*
mycorrhizas
growth 4978
nitrogen fixation 4978
*Camptomeris leucaenae*, Assam 3976
*Gigaspora margarita*, mycorrhizas, inoculation 4979
*Glomus aggregatum*, mycorrhizas, fungicides 94, 2522
*Glomus fasciculatum*, mycorrhizas, root exudates 6493
*Glomus intraradices*, mycorrhizas, acid soils 4980
*Glomus macrocarpum*
mycorrhizas
growth 4168
phosphorus 4168
*Glomus mosseae*, mycorrhizas, inoculation 4979
mycorrhizas
growth 4977
phosphorus 4977
***Leucostoma***
apples
control 1578
Iran 1578
***Leucostoma cinctum***
apricots
biological control 2230, 2971
Czechoslovakia 2229
varietal reactions 7749
peaches, breeding 2977
*Prunus davidiana*, breeding 2977
***Leucostoma kunzei**,* Coniferae, Pennsylvania 6301
***Leucostoma persoonii**,* peaches, resistance 5414
***Leveillula**,* Spain, biogeography 2551
***Leveillula taurica***
*Anethum sowa*, India 4021
*Capsicum*
breeding 2908
genetics 2908
Puerto Rico 2205
guar, crop growth stage 1500
*Ricinus communis*, control 2326
***Libocedrus chilensis***
diseases
Argentina 6325-6326
spacing 6326
mycorrhizas
Argentina 4998
Chile 5702
morphology 5702
***Libocedrus tetragona***
*Bivallum pilgerodendri*, taxonomy 592
mycorrhizas
Chile 5702
morphology 5702
**Lichens**
air pollution
biochemistry 3204
Romania 3204
indicator species, air pollution 3204
shrubs
control 1722
Washington 1722
trees
control 1722
Washington 1722
**Liechtenstein**
fruit trees
damage 2928
diseases 2928
**Light,** activity, *Rhizoctonia solani* 8823
***Ligustrum japonicum***
*Pseudomonas syringae* pv. *savastanoi*
IAA 6410

***Ligustrum japonicum*** *cont.*
*Pseudomonas syringae* pv. *savastanoi* *cont.*
strains 6410
**Liliaceae**
*Fusarium oxysporum*, vegetative compatibility groups 7969
Uredinales, Maharashtra 4007
***Lilium***
*Botrytis*, Colombia 4873
*Botrytis cinerea*, USSR 2413
*Botrytis elliptica*, USSR 2413
diseases, certification 7274
*Fusarium oxysporum* f.sp. *lilii*, screening 7968
lily X potexvirus, Japan 4006
*Phytophthora nicotianae* var. *parasitica*, Taiwan 7140
*Rhodococcus fascians*
antagonists 621
continuous cropping 621
soil biology 621
viruses, identification 7966
**Lily X potexvirus,** *Lilium*, Japan 4006
**Lima beans** (*see Phaseolus lunatus*)
**Lime trees** (*see Tilia*)
**Limes** (*Citrus aurantiifolia*)
*Alternaria limicola*
control 6990
Mexico 6990
*Capnodium citri*
control 6990
Mexico 6990
citrus tristeza closterovirus, strains 3872
*Gloeosporium limetticola*
control 6990
Mexico 6990
*Glomerella cingulata*
control 8649
strains 2264
yeasts
Argentina 502
postharvest decay 502
**Liming**
activity
*Cercospora kikuchii*, soyabeans 6772
*Heterobasidion annosum*, *Picea abies* 1167
*Picea abies*, decline 1167
*Pinus sylvestris*, mycorrhizas 700
control
*Plasmodiophora brassicae*
mustard 6234
rape 6234
***Limonium vulgare***
*Uromyces limonii*
heterothallism 2420
host parasite relationships 2420
Netherlands 2420
***Limonomyces roseipellis,*** control, *Pyrenophora tritici-repentis*, wheat 5878
**Linseed** (*Linum usitatissimum*)
*Alternaria linicola*, control 3891-3893
*Botrytis cinerea*, control 3892-3893
diseases
Germany 3045
UK 5464, 8673
yield losses 5464
*Fusarium oxysporum* f.sp. *lini*, genetics 2298
*Oidium lini*, control 3892
*Sclerotinia sclerotiorum*
UK 8667
varietal reactions 8667
seedborne fungi, varietal reactions 6237
***Linum marginale***
*Melampsora lini*
epidemiology 3205
New South Wales 3205
***Linum usitatissimum*** (*see* Flax; Linseed)
***Lippia alba,*** plant oils, antifungal agents 1834
**Liquorice** (*Glycyrrhiza glabra*)
*Phyllosticta glycyrrhizae*
Himachal Pradesh 7975
taxonomy 7975
*Uromyces glycyrrhizae*
epidemiology 5602
Xinjiang 5602
***Liriodendron tulipifera***
air pollution, growth 1696
***Liriodendron tulipifera*** *cont.*
fungi, defence mechanisms 7925
***Liriomyza trifolii,*** transmission, *Pseudomonas cichorii* 8814
***Litchi chinensis***
*Geotrichum candidum*, fungicide tolerance 4952
*Pestalotiopsis mangiferae*, Indian Punjab 3880
seedborne fungi
control 5431
storage 5431
storage decay
biochemistry 3879
control 3028-3032
***Lithocarpus,*** mycorrhizas, screening 4129
**Lithuania**
faba beans, *Pseudomonas syringae* pv. *syringae* 2612
*Festuca pratensis*, *Pyrenophora dictyoides* 6754
lucerne, root rots 2766
lupins, *Pseudomonas lupini* 2612
ornamental woody plants, fungi 2552
peas
*Pseudomonas syringae* pv. *pisi* 2612
red clover vein mosaic carlavirus 209
*Phaseolus vulgaris*, red clover vein mosaic carlavirus 209
*Trifolium pratense*, red clover vein mosaic carlavirus 209
Umbelliferae, fungi 2555
***Litsea,*** *Meliola sempeiensis* var. *nicobarica*, Andaman and Nicobar Islands 8783
**Liverworts**
mycorrhizas
staining 1867
ultrastructure 1866
***Lobesia botrana,*** epidemiology, *Botrytis cinerea*, grapes 2995
**Loblolly pine** (*see Pinus taeda*)
**Loculoascomycetes,** Ukraine 3395
***Loculotuber gennadii,*** taxonomy, new combination 3349
**Lodgepole pine** (*see Pinus contorta*)
***Lolium***
ryegrass mosaic rymovirus
varietal reactions 342
yield losses 342
***Lolium multiflorum***
*Acremonium*, breeding 8412
brome mosaic bromovirus, South Africa 4446
*Claviceps purpurea*
control 4451
seeds 4451
*Puccinia coronata*
breeding 3662
histopathology 2091
ryegrass mosaic rymovirus
epidemiology 4445
South Africa 4445-4446
temperature 4445
***Lolium perenne***
*Acremonium*
breeding 8412
detection 5984
genetic engineering 2756
insects 7566
Washington 7566
*Acremonium lolii*
Australia 8410
diseases 8410
ecology 8402, 8410
economics 8402
insects 4447, 6333, 7573
Nematoda 5985
toxins 5232, 8407
barley yellow dwarf luteovirus
screening 7565
varietal reactions 7565
Victoria 7565
*Laetisaria fuciformis*, control 931
*Magnaporthe grisea*, Pennsylvania 3177
mycorrhizas, carbon 3352, 7306
*Puccinia coronata*
breeding 3662
fertilizers 930
leaf age 930
*Puccinia graminis*, varietal reactions 3664
***Lolium perenne*** *cont.*
*Rhizoctonia solani*, control 931
seedborne fungi, Poland 8398
***Lolium rigidum***
*Clavibacter toxicus*
Australia 7574, 8414
bacteriophages 8414
taxonomy 7574
toxins 8414
**Longans,** witches' brooms, transmission 8657
***Lonicera japonica,*** tobacco leaf curl bigeminivirus, detection 1941
***Lonicera maackii***
*Cercosporidium diervillae*
China 5787
taxonomy 5787
***Lophochloa pumila,*** *Sclerophthora macrospora*, Indian Punjab 4301
***Lophodermella arcuata,*** IMI descriptions 3394
***Lophodermella cerina,*** IMI descriptions 3394
***Lophodermella concolor,*** IMI descriptions 3394
***Lophodermella montivaga,*** IMI descriptions 3394
***Lophodermella orientalis,*** IMI descriptions 3394
***Lophodermium,*** *Pinus*, China 8792
***Lophodermium ellipticum***
*Pinus armandi*
China 6317
taxonomy 6317
***Lophodermium guangxiense,*** *Pinus*, China 8792
***Lophodermium himalayense***
IMI descriptions 3394
*Pinus*, China 6317
***Lophodermium kumaunicum,*** *Pinus*, China 6317
***Lophodermium macrosporum,*** *Picea abies*, Switzerland 1716
***Lophodermium orientale,*** *Pinus*, China 8792
***Lophodermium piceae***
*Picea abies*
Europe 1169
leaf fall 7119
life cycle 7119
morphology 1169
Sweden 7119
Switzerland 1716
taxonomy 1169
***Lophodermium pinastri***
*Pinus*, Iran 1714
*Pinus radiata*, Spain 596
*Pinus sylvestris*
Latvia 1710
Romania 3171
varietal reactions 1710
***Lophodermium pini-sibiricum***
*Pinus sibirica*
China 6313
taxonomy 6313
***Lophophacidium hyperboreum,*** *Picea*, China 6320
**Loquats** (*Eriobotrya japonica*)
diseases
control 1611
Kyushu 1611
*Pestalotiopsis eriobotrifolia*
China 1308
taxonomy 1308
*Pseudomonas syringae* pv. *eriobotryae*
pathogenicity 7746
plasmids 7746
symptoms 6935
yield losses 6935
***Lotus***
*Agrobacterium*
genetic transformation 3235
roots 3235
***Lotus corniculatus***
*Glomus intraradices*
mycorrhizas
nodulation 2528
plant growth 2528
*Uromyces*, hyperparasites 2774
**Lucerne** (*Medicago sativa*)
alfalfa mosaic alfamovirus
strains 346

**Lucerne** *cont.*
alfalfa mosaic alfamovirus *cont.*
Turkey 346
*Alternaria solani*, biological control 2615
*Aphanomyces euteiches*
isolates 7577
Quebec 7577
USA 7579
virulence 7579
*Ascochyta rabiei*, pathogenicity 2140
bacteria, epiphytes 3468
*Clavibacter michiganensis* subsp. *insidiosus*
mixed infections 4453
nodules 1473
*Colletotrichum trifolii*
biological control 2765
host parasite relationships 933
*Coprinus psychromorbidus*
Saskatchewan 347
yield losses 347
diseases
Iowa 7575
phytoalexins 4456
*Fusarium*
California 7576
Siberia 8416
testing 780
varietal reactions 8416
yield losses 7576
*Fusarium oxysporum*
*in vitro* selection 7581
insects 5234
Mexico 6755
phenolic compounds 2762
resistance 2762
seeds 6755
toxins 7581
varietal reactions 6755
*Fusarium oxysporum* f.sp. *medicaginis*
Nematoda 5986
selection 8415
*Glomus*, mycorrhizas, growth 2524
*Glomus intraradices*
mycorrhizas
nitrogen fixation 2518
nodulation 2528
plant growth 2528
varietal reactions 2518
*Glomus mosseae*, mycorrhizas, growth 2524
*Glomus versiforme*
mycorrhizas
nitrogen fixation 2518
varietal reactions 2518
*Leptotrochila medicaginis*
infection 2764
relative humidity 2764
spore germination 2764
*Peronospora trifoliorum*, host parasite relationships 4455
*Phoma medicaginis*, biological control 2615
*Phoma medicaginis* var. *medicaginis*
infection 2767
pathogenicity 2767
phytoalexins, elicitors 8417
*Phytophthora megasperma* f.sp. *medicaginis*
weeds 7580
Wyoming 7580
*Pleospora tarda*, biological control 2615
*Pseudopeziza medicaginis*
biological control 2615
Bulgaria 1471
yield losses 1471
*Pythium*
California 7576
identification 7578
South Africa 7578
yield losses 7576
*Rhizoctonia solani*
anastomosis groups 2768
California 7576
Kentucky 2768
Mexico 6755
seeds 6755
varietal reactions 6755
yield losses 7576
root rots
fungi 2766

**Lucerne** *cont.*
root rots *cont.*
Lithuania 2766
*Sclerotinia trifoliorum*
control 7564
Ohio 7564
*Stemphylium vesicarium*, pathogenicity 2763
*Verticillium albo-atrum*
British Columbia 1472
elicitors 5235
histopathology 3666
Mexico 6755
mixed infections 4453
phytoalexins 5235
resistance 3666
seeds 6755
varietal reactions 1472, 6755
weeds 7580
Wyoming 7580
viruses
Canada 4454
USA 4454
*Xanthomonas campestris* pv. *alfalfae*, biochemistry 3667
**Lucerne transient streak sobemovirus**
molecular genetics
replication 4261
satellite RNA 4261
***Luffa acutangula*,** seedborne fungi, Orissa 2918
***Luffa aegyptiaca*, *Sphaerotheca fuliginea*,** fungicide tolerance 4601
**Lupins**
cucumber mosaic cucumovirus
detection 7584
seeds 7584
*Diaporthe woodii*
Belarus 3673
rotations 3673
pesticides, toxicity 7214
*Phytophthora cinnamomi*
antagonists 5455
soil water 4461
*Pleiochaeta setosa*
New Brunswick 1477
Nova Scotia 1477
seeds 1477
*Pseudomonas lupini*, Lithuania 2612
*Sclerotinia minor*, Texas 5573
seedborne fungi, storage 1478
viruses
Poland 937
vectors 937
***Luvunga scandens*,** plant oils, antifungal agents 8119
***Lychnis viscaria*, *Ustilago violacea*,** reproduction 4020
***Lycopersicon***
*Fusarium oxysporum* f.sp. *lycopersici*, resistance 2897
tomato yellow leaf curl bigeminivirus
breeding 5328
genetics 5328
resistance 4577
transmission 4577
***Lycopersicon esculentum*** (*see* Tomatoes)
***Lycopersicon peruvianum***
diseases, interspecific hybridization 8542
*Fusarium oxysporum* f.sp. *lycopersici*
elicitors 8549
host parasite relationships 8549
***Lycopersicon pimpinellifolium*** (*see* Tomatoes)
***Lycopodium cernuum*,** mycorrhizas, Malaysia 728
***Maackia amurensis***
*Pseudocercospora cladrastidis*
China 5787
taxonomy 5787
*Stagonospora maackieae*, Korea Republic 8759
***Macadamia***
decline
control 7813
fungi 7814
Hawaii 7813-7814
symptoms 7814
varietal reactions 7813
**Macaronesia,** *Orbilla* 7368

***Macleya cordata***
*Pseudocercospora macleyae*
China 5784
taxonomy 5784
***Macrophoma*, *Amaranthus*,** Mexico 5975
***Macrophoma mangiferae*,** mangoes, Indian Punjab 4681
***Macrophomina*, *Sechium edule*,** storage 3793
***Macrophomina diospyricola*,** persimmons, Republic of Georgia 4686
***Macrophomina phaseolina***
bacteria, antagonism 8147
*Capsicum*
fruits 1022
Maharashtra 1022
chickpeas
Andhra Pradesh 6798
biological control 3705, 6019
control 377, 7621
Ethiopia 377
histopathology 4493
Myanmar 2133, 2141
Nematoda 956, 3705, 6019, 7620
nitrogen fixation 7620
screening 6017
susceptibility 4494
variation 2141
varietal reactions 4494
cotton
control 7890
reviews 2358
cowpeas
inoculation 2814
physiology 7628
crops, Hungary 7417
*Eleusine coracana*
Madhya Pradesh 2727
seeds 2727
forest trees
Chile 7085
cultural methods 7085
*Ginkgo biloba*, China 8787
groundnuts
control 3068
seeds 3068
guar, control 748
guavas
control 7006
population dynamics 1616
soil 1616
*Hydrilla verticillata*
biological control 4028
histopathology 4028
jute
fertilizers 8743
sclerotia 1140
taxonomy 1140
varietal reactions 7900, 8743
laboratory tests
cephalosporins 689
fungicides 111, 7241
heat treatment 5774
heavy metals 5741
maize
breeding 890
genetics 890
varietal reactions 1423
*Mentha arvensis*, Karnataka 8831
*Mucuna pruriens*, Nigeria 2775
okras
Indian Punjab 6906
rhizosphere 6906
peas
host range 6015
pathotypes 6015
South Australia 6015
*Phaseolus lunatus*
Karnataka 8444
seeds 8444
*Phaseolus vulgaris*
control 6786
drought 6782
Honduras 3687
Mexico 6775, 6782, 6786
Myanmar 2141
seeds 3687, 6786
variation 2141
varietal reactions 2795
yield losses 6775
potatoes
Assam 6045

***Macrophomina phaseolina*** *cont.*
potatoes *cont.*
enzymes 8492
*Ricinus communis*
control 2326
environmental factors 5479
sesame
isolates 7845
Mexico 7037
Rajasthan 6253
seeds 6253
soil water 7037
Venezuela 7845
virulence 7845
soil, control 748
sorghum
biochemistry 306
breeding 4402
carbohydrates 1431
defoliation 8356
environmental factors 5198
genetics 3615, 4403
histopathology 7513
India 5198
Mexico 1435, 1439
phenolic compounds 1431
resistance 306
varietal reactions 1430-1431, 1435, 1437, 1439, 3609, 3616, 5198
soyabeans
biological control 1482
Brazil 1482
control 6765
Mexico 6765
Myanmar 2141
physiology 2785
plant residues 1482
sclerotia 2785
seeds 365, 6765
variation 2141
sunflowers
host parasite relationships 2304
seed oils 7018
*Tagetes erecta*, Uttar Pradesh 7964
toxins 5023
*Vigna mungo*
control 2815
toxins 6024
*Vigna radiata*
host parasite relationships 969
nitrogen fixing bacteria 970
temperature 969
weeds, Hungary 7417
***Macrosiphum albifrons***, transmission, viruses 937
***Macrosiphum euphorbiae***
transmission
beet western yellows luteovirus 5486
papaya ringspot potyvirus 4684
***Macrosiphum pseudosolani***, transmission, tomato aspermy cucumovirus 6860
***Macrosteles quadrilineatus***, transmission, mycoplasma-like organisms 8235
***Macrotyloma uniflorum***, bean yellow mosaic potyvirus, varietal reactions 2150
***Magnaporthe grisea*** (*see also Pyricularia oryzae*)
barley, Kenya 6688
biology, reviews 2079
*Eleusine coracana*
Karnataka 7520
molecular genetics 3626
strains 3626
yield losses 7520
*Eleusine indica*
host parasite relationships 909
molecular genetics 3626
strains 3626
*Eragrostis curvula*, host parasite relationships 909
lawns and turf
mowing 1729
mulching 1729
*Lolium perenne*, Pennsylvania 3177
molecular genetics
gene mapping 333
host parasite relationships 329
*Oryza glaberrima*
Côte d'Ivoire 3641
genetics 3641

***Magnaporthe grisea*** *cont.*
*Oryza glaberrima cont.*
varietal reactions 3641
*Pennisetum*, Karnataka 2092
*Pennisetum americanum*
genetic resources 2070
genetics 317
Karnataka 2092
population genetics, reviews 2079
rice
air spora 1455
breeding 7526
Burundi 7527
Cameroon 5209
China 1454
Colombia 6740
control 903, 4440, 6740
cultural methods 4440
detection 7543
environmental factors 7527
genetics 811, 915, 2742, 4426, 5215, 5957
host parasite relationships 811, 910
immunodiagnosis 332
infection 8377
inoculation 4421
Nigeria 4420
pathogenicity 1454
Philippines 7526
reviews 912
strains 4426
testing 4421
varietal reactions 4420, 4440, 6740, 7538
virulence 915, 2742, 5957
Zhejiang 1455
*Stenotaphrum secundatum*, control 1726
wheat, Kenya 6688
***Magnaporthe poae***, *Agrostis stolonifera*, Florida 6334
***Magnaporthe salvinii***
rice
culture media 4431
Indonesia 5214
infection 8370
sclerotia 4431
**Magnesium**
deficiency
mandarins 4678
ornamental plants 4876
**Magnesium phosphide**, fungicide residues, cereals 4304
***Magnolia grandiflora***, *Botryodiplodia theobromae*, Romania 3171
***Mahonia repens***
*Kabatina mahoniae*
Colorado 1177
taxonomy 1177
*Selenophoma mahoniae*
Colorado 1177
taxonomy 1177
*Tectacervulus mahoniae*
Colorado 1177
taxonomy 1177
**Maize** (*Zea mays*)
acid rain
damage 1426
histology 1426
aflatoxins
control 4397
detection 4396
Thailand 4397
*Agrobacterium tumefaciens*, genetic transformation 2048
*Apiospora camptospora*, India 7509
*Aspergillus*
aflatoxins 2629
control 879
seeds 879
storage 2629
*Aspergillus flavus*
Bihar 6704
control 5119
environmental factors 3605
inoculation 889
insects 6704
resistance 304
seeds 3605, 4280, 6704
storage 5119, 6704
toxins 889, 4280, 6704, 7507, 8352, 8354

**Maize** *cont.*
*Aspergillus flavus cont.*
varietal reactions 4280
*Aspergillus flavus* var. *columnaris*, seeds 303
*Aspergillus ochraceus*
control 5119
storage 5119
*Aspergillus parasiticus*
breeding 3604
toxins 3604, 8352
bacteria
epiphytes 3468
Venezuela 2722
barley yellow dwarf luteovirus
Idaho 819
resistance 6696
transmission 819, 6696
Yugoslavia 4380, 5911
*Cephalosporium maydis*, fertilizers 4398
*Cercospora*
enzymes 5191
toxins 5191
*Cercospora zeae-maydis*
breeding 5922
crop residues 2715
Ohio 2715
testing 7508
USA 5922
*Chlamydomyces palmarum*, West Bengal 755
*Cladosporium herbarum*, pollen 5193
*Cochliobolus carbonum*
carbohydrates 5195
cytokinins 5195
enzymes 2716
genetics 2064, 4275, 4400
infection 5195
North Carolina 8353
races 5924, 8353
resistance 2716
seeds 2712
toxins 2064, 4400
USSR 882
*Cochliobolus heterostrophus*
genetics 2711
host parasite relationships 3599
resistance 7502
toxins 3599, 5919
USSR 882, 2053
varietal reactions 2056, 5919
*Cochliobolus sativus*, Gansu 5925
*Cochliobolus verruculosus*, West Bengal 755
*Colletotrichum*
isolates 824
molecular genetics 824
*Colletotrichum graminicola*
biological control 2066
host parasite relationships 6633
reviews 6633
seeds 2712
varietal reactions 8349
diseases
Asia 7495
bibliographies 2047
biological control 1413
breeding 5914
continuous cropping 5239
control 881, 2047, 4379, 4384, 5912
defence mechanisms 3493
France 3593
host parasite relationships 3594
Japan 5912
Mexico 5916
mutants 3594
proteins 3493
reviews 7495
rotations 5916
São Paulo 6698
seed treatment 1416
Ukraine 4384
USA 5912
varietal reactions 6698
Venezuela 4379
*Erwinia chrysanthemi*, enzymes 4401
*Erwinia chrysanthemi* pv. *zeae*, Hokkaido 6705
*Erwinia stewartii*
detection 5196
seeds 5196

**Maize** *cont.*
fungi, Germany 880
fungicides
DNA 7245
formulations 1415
*Fusarium*
control 879
mixed infections 7501
seeds 879
toxins 2065
*Fusarium culmorum*, toxins 5192
*Fusarium equiseti*, culture media 7505
*Fusarium pallidoroseum*, culture media 7505
*Fusarium solani*
cropping systems 4392
soil 4392
*Gaeumannomyces graminis* var. *maydis*, taxonomy 5926
*Gibberella acuminata*, culture media 7505
*Gibberella fujikuroi*
antagonists 1419, 2062
biological control 1421, 5189
control 2714
culture media 7505
genetics 2061
Honduras 301
insects 5915
intercropping 2062
mixed infections 4394
pathogenesis-related proteins 5190, 6703
reviews 5189
seeds 2712, 2714, 5124, 5190
selection 3602
soil texture 2062
South Africa 5915
toxins 2065, 3602, 5189
vegetative compatibility groups 5124
Zhejiang 5188
*Gibberella zeae*
biological control 1420
mixed infections 4394
pathogenicity 6634
phenolic compounds 4393
plant age 5921
testing 5921
varietal reactions 1422, 2713, 4393, 5187, 8349
*Glomerella*
isolates 824
molecular genetics 824
*Glomus*
mycorrhizas
edaphic factors 1272
growth 4158
Minnesota 1272
nutrients 4157
soil organic matter 4158
*Glomus etunicatum*, mycorrhizas, inoculum 4161
*Glomus fasciculatum*, mycorrhizas, nitrogen 4990
*Glomus intraradices*, mycorrhizas, herbicides 2504
*Glomus mosseae*
mycorrhizas
inoculation 95
manganese 1271
*Glomus versiforme*
mycorrhizas
intercropping 1853
nutrients 1853
phosphorus 2517
*Glomus vesiculiferum*, mycorrhizas, herbicides 2504
laboratory tests, aflatoxins 7506
*Macrophomina phaseolina*
breeding 890
genetics 890
Hungary 7417
varietal reactions 1423, 7417
maize chlorotic dwarf ribotungrovirus
breeding 8346
helper viruses 6695
reviews 876
transmission 2707, 6695, 7499
maize dwarf mosaic potyvirus
breeding 4378, 8346
California 7496

**Maize** *cont.*
maize dwarf mosaic potyvirus *cont.*
characteristics 5184
China 297
flowers 2706
genetics 5910
Hungary 2049
nitrogen 6694
reviews 876
seeds 2706
Taiwan 3076
transmission 298
varietal reactions 297, 1414, 3076, 4297
vectors 7496
water stress 6694
weeds 7496
yield losses 1414
Yugoslavia 1414, 4380
maize rayado fino marafivirus
Costa Rica 1977, 7497
forecasting 7497
intercropping 1977
vectors 1977, 7497
maize rough dwarf fijivirus
Italy 2709
transmission 2709
varietal reactions 2709
maize streak monogeminivirus
control 4381-4382
Mauritius 295
mixed infections 295, 5909
reviews 876
screening 8347
South Africa 299, 4381
temperature 4383
translocation 2050
transmission 878, 4381-4383
varietal reactions 299, 2050
vectors 8347
maize stripe tenuivirus
characteristics 7498
Mauritius 295
mixed infections 295
serology 7498
Taiwan 7498
maize white line mosaic virus
hydroponics 877
spread 877
*Monographella maydis*
assessment 1425
genetics 3603
*Monosporascus cannonballus*, pathogenicity 8602
mycoplasma-like organisms
Costa Rica 1977
intercropping 1977
vectors 1977
mycorrhizas
estimation 2513
growth 4146
nitrogen 2503
phosphorus 2509
*Mycosphaerella zeae-maydis*, genetics 2711
*Penicillium citrinum*
toxins 5127
varietal reactions 5127
*Penicillium griseofulvum*
control 5194
toxins 5194
*Penicillium oxalicum*
control 4399
seed treatment 4399
*Peronosclerospora*
reviews 887
selection 5186
*Peronosclerospora philippinensis*, mixed infections 5909
*Peronosclerospora sacchari*, breeding 4378
*Peronosclerospora sorghi*
Brazil 886
control 4390
environmental factors 2055
Karnataka 4390
mixed infections 5909
sporulation 2055
varietal reactions 3598, 8351
yield losses 4390
pesticides, toxicity 7214

**Maize** *cont.*
*Phyllachora maydis*
assessment 1425
genetics 3603
plant extracts, antifungal agents 1835, 4377
plant oils, antifungal agents 4611
*Pseudomonas andropogonis*, Taiwan 5927
*Pseudomonas avenae*, Taiwan 5927
*Pseudomonas cepacia*
colonization 1413
inoculation 1413
*Pseudomonas fuscovaginae*, reviews 2630
*Puccinia polysora*
environmental factors 4387
forecasting 4387, 5917
genetics 4386
races 4386
Taiwan 4386-4387, 5917
*Puccinia sorghi*
biological control 4305
environmental factors 4387
forecasting 4387, 5917
genetics 1417, 3597, 4385-4386
host parasite relationships 1417
Kenya 4395
molecular genetics 6700
races 4386
Taiwan 4386-4387, 5917
varietal reactions 4395
*Pythium*, biological control 2068
*Pythium aphanidermatum*
breeding 4378
inoculation 2063
mixed infections 4394
screening 2063
*Rhizoctonia*
Jiangsu 8248
pathogenicity 8248
*Rhizoctonia solani*
control 2067
isolates 4197
Jiangsu 2067
rice black-streaked dwarf fijivirus, Korea Republic 901
*Sclerophthora*, reviews 887
*Sclerospora*, reviews 887
seedborne fungi
control 5850, 8348
Egypt 6699
India 5913
Madhya Pradesh 3596
toxins 6699
Uttar Pradesh 5850
*Setosphaeria turcica*
epidemiology 2058
genetics 3600, 4385, 4391
isoenzymes 5920
Karnataka 2060
races 4391
resistance 5920
reviews 2058
Russia 888
sowing date 2060
testing 7504
tillage 1424
Uganda 4391
USSR 882, 2053
varietal reactions 2057, 2059, 3601, 7503, 8351
yield losses 2057
sorghum stunt mosaic nucleorhabdovirus
characteristics 2710
transmission 2710
*Sphacelotheca reiliana*, Sikkim 4389
*Spiroplasma*
Costa Rica 1977
intercropping 1977
vectors 1977
*Spiroplasma kunkelii*, Argentina 2708
*Stenocarpella maydis*
Honduras 301
insects 5915
South Africa 5915
storage decay
control 3595, 7500
environmental factors 2052
moisture content 6697
Yugoslavia 2051-2052

**Maize** *cont.*
sugarcane mosaic potyvirus
Hungary 2049
varietal reactions 4297
Ustilaginales, Moldova 885
*Ustilaginoidea virens*, Sikkim 4389
*Ustilago zeae*
crop density 5918
enzymes 1967
ergosterol 6701
inoculation 302
molecular genetics 5185
mutants 6701
pathogenicity 5185
siderophores 5185
Sikkim 4389
varietal reactions 5918
viruses
Africa 8345
cytology 296
genetic transformation 2048
reviews 8345
taxonomy 167
wheat dwarf geminivirus, replication 300
**Maize chlorotic dwarf ribotungrovirus**
maize
breeding 8346
helper viruses 6695
reviews 876
transmission 2707, 6695, 7499
*Sorghum halepense*, transmission 2707
**Maize dwarf mosaic potyvirus**
*Bromus catharticus*, South Africa 4446
Gramineae
host range 4250
Venezuela 4250
maize
breeding 4378, 8346
California 7496
characteristics 5184
China 297
cytology 296
flowers 2706
genetics 5910
Hungary 2049
nitrogen 6694
reviews 876
seeds 2706
Taiwan 3076
transmission 298
varietal reactions 297, 1414, 3076, 4297
vectors 7496
water stress 6694
weeds 7496
yield losses 1414
Yugoslavia 1414, 4380
oats, South Africa 4446
sorghum
breeding 5928
Hungary 3606
inoculation 2718
interactions 2719
strains 3606
transmission 5928
varietal reactions 4297
Yugoslavia 5928
*Sorghum halepense*, epidemiology 7496
strains, serology 3447
taxonomy 188
*Tripsacum dactyloides*, Kansas 5977
**Maize mosaic nucleorhabdovirus**, sorghum, biochemistry 5929
**Maize rayado fino marafivirus**
maize
Costa Rica 1977, 7497
forecasting 7497
intercropping 1977
vectors 1977, 7497
**Maize rough dwarf fijivirus**
maize
Italy 2709
transmission 2709
varietal reactions 2709
molecular genetics, nucleotide sequences 8227
**Maize streak monogeminivirus**
Gramineae, histopathology 3487
maize
control 4381-4382
Mauritius 295
**Maize streak monogeminivirus** *cont.*
maize *cont.*
mixed infections 295, 5909
reviews 876
screening 8347
South Africa 299, 4381
temperature 4383
translocation 2050
transmission 878, 4381-4383
varietal reactions 299, 2050
vectors 8347
molecular genetics, genetic engineering 2574
sugarcane
control 3075
histopathology 3487
tissue culture 3075
wheat
genetics 1987
South Africa 1987
varietal reactions 1987
**Maize stripe tenuivirus**
maize
characteristics 7498
Mauritius 295
mixed infections 295
serology 7498
Taiwan 7498
molecular genetics
nucleotide sequences 1331, 4256, 5087
RNA 4256
**Maize white line mosaic virus**
maize
hydroponics 877
spread 877
***Malajczukia amicorum***
Australia 708
taxonomy 708
***Malajczukia fusispora***
Australia 708
taxonomy 708
***Malajczukia karrialis***
Australia 708
taxonomy 708
***Malajczukia spumoidea***
Australia 708
taxonomy 708
***Malajczukia tropica***
Australia 708
taxonomy 708
***Malajczukia viridigleba***
Australia 708
taxonomy 708
**Malawi**
apples
*Glomerella cingulata* 4036
*Nectria cinnabarina* 6147
bananas, diseases 493
cashews, *Oidium anacardii* 4036
coffee, *Glomerella cingulata* 5491
peaches, *Tranzschelia pruni-spinosae* 4036
*Phaseolus vulgaris*, *Fusarium solani* f.sp. *phaseoli* 2797
**Malaysia**
cocoa
*Oncobasidium theobromae* 554
*Phytophthora palmivora* 4752
*Hevea brasiliensis*
*Botryodiplodia theobromae* 2370
diseases 6283, 6285
*Ganoderma philippii* 2371
*Phellinus noxius* 2371
*Rigidoporus lignosus* 2371, 8746
*Lycopodium cernuum*, mycorrhizas 728
oil palms
*Ganoderma* 2313
*Ganoderma boninense* 2312, 2314-2315
pesticides
formulations 6423
usage 5669, 7228
rubber, seedborne fungi 2369
*Sesbania rostrata*, *Pseudomonas solanacearum* 5238
vegetables, viruses 1974
**Mali**
plant protection 8257
vegetables, diseases 5120
**Malta**, grapes, viruses 7778
***Malus***, *Venturia inaequalis*, varietal reactions 3122
***Malus pumila*** (*see* Apples)
***Malva pusilla***
*Colletotrichum gloeosporioides* f.sp. *malvae*
biological control 5615, 7992
Canada 7992
**Mancozeb**
activity
*Alternaria helianthi* 2310
bacteria 4055
*Chalara paradoxa*, *Raphia* 4784
chickpeas 4489
*Fusarium pallidoroseum* 4640
*Macrophomina phaseolina* 111
melons 445
*Pesalotiopsis funerea* 8793
*Phytophthora capsici* 7700
*Pythium oligandrum*, soil 2546
*Rhizopus oryzae* 6116
*Septoria apiicola* 7248
control
*Alternaria*, *Brassica napus* 999
*Alternaria alternata*
chickpeas 968
potatoes 8495
*Alternaria longipes*, tobacco 8715
*Alternaria porri*, onions 3750
*Alternaria solani*, tomatoes 7687
*Ascochyta rabiei*, chickpeas 2809, 6801
*Aspergillus niger*, groundnuts 3904
*Botryodiplodia theobromae*, guavas 1615
*Botryosphaeria dothidea*, apples 4613
*Camptomeris albizziae*, *Albizia lebbek* 8780
*Cercospora canescens*, *Vigna radiata* 7629
*Cercospora destructiva*, *Euonymus* 4858
chickpeas, seedborne fungi 2807
*Cladobotryum verticillatum*, *Agaricus bitorquis* 5603
*Cochliobolus miyabeanus*, rice 2736, 5963
*Cochliobolus sativus*, wheat 7456
*Colletotrichum capsici*
*Capsicum* 6126
cowpeas 2147
*Colletotrichum dematium*, *Croton tiglium* 8822
*Colletotrichum orbiculare*, watermelons 1035
cotton, boll rot 5514
*Diplodia rosarum*, roses 4855
*Elsinoë ampelina*, grapes 1073
*Erysiphe graminis*, wheat 6603
*Erysiphe polygoni*
*Coriandrum sativum* 7152
*Vigna radiata* 383
*Fusarium culmorum*, wheat 2682, 7456
*Fusarium solani*, cowpeas 3709
*Gibberella fujikuroi*, rice 2736
*Gloeodes pomigena*, apples 6914, 7732
*Glomerella cingulata*
*Ficus religiosa* 8781
guavas 1615
limes 8649
groundnuts, diseases 7829
limes, diseases 6990
*Macrophomina phaseolina*, guavas 7006
mangoes, diseases 7801
*Mycosphaerella*, groundnuts 1637
*Mycosphaerella berkeleyi*, groundnuts 7841
*Mycosphaerella cruenta*, *Vigna radiata* 7629
*Nectria galligena*, apples 2958
peas, diseases 2129
*Peronospora destructor*, onions 6073
*Pestalotiopsis psidii*, guavas 1615
*Phaseolus vulgaris*, diseases 5262, 6780
*Phytophthora*
chrysanthemums 3185
*Hevea brasiliensis* 578

**Mancozeb** *cont.*
control *cont.*
*Phytophthora cactorum*, apples 3823
*Phytophthora drechsleri*, cucumbers 7720
*Phytophthora infestans*, potatoes 975, 1511, 3716, 3718, 6050, 6054, 6820
*Phytophthora nicotianae* var. *nicotianae*, aubergines 8571
*Phytophthora palmivora*, cocoa 557
*Pseudocercospora abelmoschi*, okras 5385
*Pseudomonas mori*, mulberries 6953
*Pseudomonas syringae* pv. *tomato*, tomatoes 2199
*Pseudoperonospora cubensis*
Cucurbitaceae 4602
melons 2920, 3800
*Puccinia arachidis*, groundnuts 7841
*Puccinia psidii*, guavas 3886
*Pyrenophora tritici-repentis*, wheat 4308
*Pythium*
chrysanthemums 3185
cucumbers 2210
*Rhizoctonia solani*, potatoes 3723
*Schizothyrium pomi*, apples 6914, 7732
sunflowers, diseases 4708
*Thielaviopsis basicola*, groundnuts 530
tomatoes, diseases 6872
*Tranzschelia discolor*, almonds 4690
*Uromyces appendiculatus*, *Phaseolus vulgaris* 1493
*Vigna mungo*, diseases 3708
*Xanthomonas campestris* pv. *vesicatoria*, *Capsicum* 1025
fungicide residues
apricots 6939
aubergines 4590
cowpeas 6025
cucumbers 4953
determination 4954, 6432
ethylenethiourea 6430
fruit 78
vegetables 78, 1830
fungicide tolerance
*Alternaria solani* 5024
*Botrytis cinerea* 5831
nontarget effects
mites 1818-1819
nitrogen fixing bacteria 3309-3310
soil bacteria 2479
soil fungi 2479
seed treatment
aubergines 8572
*Echinochloa frumentacea* 2726
groundnuts 1103
lentils 7618
maize 5850
rice 2736, 4428, 5850, 5964
wheat 5850, 6651, 7456
**Mandarins** (*Citrus deliciosa*, *C. reshni* and *C. reticulata*)
*Alternaria alternata*, toxins 7797
*Botryodiplodia theobromae*
Arunachal Pradesh 3016
insect damage 3016
copper, toxicity 8655
disorders
China 4679
sodium 4679
*Fusarium*
environmental factors 8650
symptoms 8650
Tamil Nadu 8650
postharvest decay, control 501
yeasts
Argentina 502
postharvest decay 502
yellowing, mineral nutrition 4678
**Maneb**
activity, soil 88
control
*Alternaria macrospora*, cotton 1673
*Ascochyta*, grapes 6970
*Cochliobolus miyabeanus*, rice 2736
cowpeas, diseases 2145
**Maneb** *cont.*
control *cont.*
*Entomosporium mespili*, *Photinia fraseri* 3996
*Fusarium culmorum*, wheat 2682
*Gibberella fujikuroi*, rice 2736
*Leptosphaeria nodorum*, wheat 2016
*Mycosphaerella graminicola*, wheat 2016
*Myrothecium roridum*, cotton 4779
peaches, diseases 6164
*Peronospora destructor*, onions 425
*Phytophthora infestans*, potatoes 398
*Pyricularia oryzae*, rice 3644
fungicide residues
cowpeas 6025
ethylenethiourea 6430
fruit 78
vegetables 78
phytotoxicity, grapes 6970
seed treatment
cereals 827
cowpeas 2147
rice 2736, 5964
wheat 2645, 6651, 7456
**Manganese**
control, *Gaeumannomyces graminis* 2603
deficiency, lemons 3020
toxicity
crops 4278
cucumbers 2925
**Manganese chloride**, activity, *Erysiphe graminis*, wheat 7469
***Mangifera indica*** (*see* Mangoes)
**Mangoes** (*Mangifera indica*)
*Alternaria alternata*
Israel 5448
relative humidity 5448
bacteria
fruits 3023
seasonal variation 3023
*Botryodiplodia theobromae*
Bangladesh 6998
Indian Punjab 4681
postharvest decay 6998
*Capnodium mangiferae*
Himachal Pradesh 5447
varietal reactions 5447
*Capnodium ramosum*
Himachal Pradesh 5447
varietal reactions 5447
*Colletotrichum mangiferae*, characteristics 3004
copper, deficiency 3005
dieback
aetiology 3022
Himachal Pradesh 3022
diseases
control 7801
South Africa 7801
disorders, air pollution 3024
*Dothiorella dominicana*, South Africa 508
*Gibberella fujikuroi* var. *subglutinans*, mycoviruses 3878
*Glomerella cingulata*
biological control 4680
control 5449, 6999-7000
DNA 3865
enzymes 1082, 5449
fungicide residues 6999
genetic variation 7802
Guam 1609
insects 1609
Philippines 4680
postharvest decay 4658, 4680, 5449
Rajasthan 5449
resistance 4658
variation 3865
*Leptoxyphium fumago*
control 1610
Uttar Pradesh 1610
*Macrophoma mangiferae*, Indian Punjab 4681
malformation
aetiology 3878
environmental factors 6214
Himachal Pradesh 6214
nutrients 5450
reviews 7001
varietal reactions 6214
**Mangoes** *cont.*
malformation *cont.*
viruses 3877
*Meliola mangiferae*
Himachal Pradesh 5447
varietal reactions 5447
*Microxyphium columnatum*
control 1610
Uttar Pradesh 1610
mineral deficiencies, boron 3025
mycorrhizas, growth 1273
*Penicillium aurantiogriseum*
control 3021
storage 3021
*Pestalotiopsis mangiferae*, Indian Punjab 4681
plant extracts, antifungal agents 6999
postharvest decay, control 8656
storage decay, control 1608
*Tripospermum myrti*
control 1610
Uttar Pradesh 1610
yeasts
fruits 3023
seasonal variation 3023
***Manihot esculenta*** (*see* Cassava)
**Manures**
activity, *Verticillium dahliae*, cotton 1136
control, *Phytophthora cinnamomi*, avocados 7011
**Maples** (*see Acer)*
***Marasmiellus inoderma***
fodder crops
Egypt 6628
toxins 6629
***Marasmius perniciosus*** (*see Crinipellis perniciosa)*
***Marasmius scandens***
cocoa
control 552
Solomon Islands 552
***Marattia salicina***, *Corticium rolfsii*, pathogenicity 8820
***Maravalia achroa***
*Dalbergia sissoo*
Nepal 5545
screening 5545
**Maritime pine** (*see Pinus pinaster)*
**Marrows** (*see also Cucurbita* spp.)
cucumber mosaic cucumovirus
coat proteins 1030
detection 1030
strains 5359
varietal reactions 5359
diseases, control 4904
*Erysiphe cichoracearum*
epidemiology 2919
Italy 2919
*Pseudomonas syringae* pv. *lachrymans*
Italy 2923-2924
seeds 2924
*Pseudoperonospora cubensis*
pathotypes 447
virulence 447
silverleaf
aetiology 3788
France 3788
insects 3788
*Sphaerotheca fuliginea*
epidemiology 2919
Italy 2919
screening 8601
squash leaf curl geminivirus
coat proteins 1030
detection 1030
squash mosaic comovirus
coat proteins 1030
detection 1030
viruses
Arkansas 6129
control 3785, 4596
France 6889
insects 3785
vectors 6129
*Xanthomonas*
Moldova 453
yield losses 453
zucchini yellow mosaic potyvirus
coat proteins 1030
control 5351
Czechoslovakia 3790

**Marrows** *cont.*
zucchini yellow mosaic potyvirus *cont.*
detection 1030
epidemiology 1561
induced resistance 2208, 3786
Nepal 1561
seeds 3786
transmission 5351, 7706
UK 2208
vectors 4594
***Marssonina***
*Populus*, Jammu and Kashmir 4810
*Populus tremuloides*, Mexico 7100
***Marssonina brunnea***
*Populus*
control 3138
Italy 3138
***Marssonina rosae***
roses
isolates 5559
Mississippi 5559, 7952-7953
varietal reactions 5559, 7952-7953
**Martinique**
bananas, *Cylindrocladium* 6198
tomatoes, *Pseudomonas solanacearum* 2901
***Marvalia cryptostegia***
*Cryptostegia grandiflora*
biological control 6367
Queensland 6367
***Massaria platani***
*Platanus acerifolia*
control 3981
France 3145, 3981
***Massariothea similis,*** *Heteropogon triticeus*, taxonomy 5047
***Massariothea triseptata,*** *Sorghum plumosum*, taxonomy 5047
***Matteuccia struthiopteris,*** *Phoma matteuccicola*, taxonomy 1752
**Mauritius**
maize
maize streak monogeminivirus 295
maize stripe tenuivirus 295
passion fruits, *Phomopsis tersa* 2275
**MBC** (*see* Carbendazim)
***Medicago murex***
alfalfa mosaic alfamovirus, yield losses 925
bean yellow mosaic potyvirus, yield losses 925
cucumber mosaic cucumovirus, yield losses 925
***Medicago polymorpha***
alfalfa mosaic alfamovirus
persistence 1476
seeds 1476
spread 1476
yield losses 925, 1476
bean yellow mosaic potyvirus, yield losses 925
cucumber mosaic cucumovirus, yield losses 925
***Medicago sativa*** (*see* Lucerne)
**Medicinal plants**
mycoplasma-like organisms, USSR 7144
plant extracts, antifungal agents 5697
viruses, USSR 7144
**Mediterranean countries**
*Cupressus*, diseases 4849
tobacco, *Peronospora tabacina* 7883
tomatoes, viruses 6861
**Meetings** (*see* Conferences)
***Megacapitula villosa,*** taxonomy, new species 3408
***Melaleuca quinquenervia,*** mycorrhizas, New South Wales 7297
***Melampsora***
*Populus*, Jammu and Kashmir 4810
*Salix*
clonal variation 4812
control 7089
France 7089
UK 4812
***Melampsora allii-populina***
*Populus*
France 3972, 7918
susceptibility 7918
varietal reactions 3137
***Melampsora amygdalineae,*** *Salix*, UK 7922
***Melampsora caprearum***
*Salix*
control 7089
France 7089
UK 7922
***Melampsora ciliata***
*Populus*
Himachal Pradesh 7919
induced resistance 3971
***Melampsora epitea,*** *Salix*, UK 7922
***Melampsora euphorbiae,*** *Euphorbia esula*, Nei Menggu 5611
***Melampsora helioscopiae,*** *Euphorbia geniculata*, biochemistry 2424
***Melampsora larici-epitea,*** *Salix*, Iran 6550
***Melampsora larici-pentandrae,*** *Salix*, UK 7922
***Melampsora larici-populina***
*Populus*
France 3972, 7918
host range 7098
Oregon 7098
susceptibility 7918
varietal reactions 3137
Washington 7098
*Populus canadensis*
control 7089
France 7089
*Populus deltoides*, Uttar Pradesh 6295
***Melampsora lini***
flax
genetics 1679, 3120, 5519, 7077
host parasite relationships 5519
molecular genetics 3959, 6281
karyotypes 1881
*Linum marginale*
epidemiology 3205
New South Wales 3205
***Melampsora medusae***
*Populus*
France 3972, 7918
Oregon 7097
susceptibility 7918
varietal reactions 3137
Washington 7097
*Populus balsamifera*
screening 7917
USA 7917
*Populus deltoides*
environmental factors 8774
genotypes 5537
isolates 5537
Kentucky 5537, 8774
Mississippi 5537
***Melampsora occidentalis,*** *Populus trichocarpa*, varietal reactions 2387
***Melampsora populnea***
*Populus*, Himachal Pradesh 7919
*Populus tremula*
Italy 3126
provenance 3126
***Melampsora ribesii-viminalis,*** *Salix*, UK 7922
***Melampsora ricini,*** IMI distribution maps 3389
***Melampsora salicis-albae,*** *Salix*, UK 7922
***Melampsorella caryophyllacearum,*** Coniferae, Pennsylvania 6301
***Melampsoridium betulinum***
*Betula pendula*
acid rain 3134
Finland 2381
host specificity 2381
taxonomy 2381
*Betula pubescens*
Finland 2381
host specificity 2381
taxonomy 2381
***Melampsoridium hiratsukanum,*** *Alnus nepalensis*, Nepal 8778
***Melanconium alni,*** *Alnus*, characteristics 3144
***Melanconium marginalis,*** *Alnus*, characteristics 3144
***Melanoplus,*** transmission, *Colletotrichum gloeosporioides* f.sp. *aeschynomene* 1189
***Melanospora,*** *Platanus acerifolia*, Czechoslovakia 7104
***Melia azedarach,*** plant extracts, antifungal agents 3290
***Melicoccus bijugatus,*** *Nectria rigidiuscula*, Venezuela 3490
***Melinis minutiflora,*** *Cladosporium herbarum*, pollen 5193
***Meliola dichotoma,*** *Hedera nepalensis*, Hunan 4799
***Meliola gneticola***
*Gnetum montanum*
China 5781
taxonomy 5781
***Meliola mangiferae***
mangoes
Himachal Pradesh 5447
varietal reactions 5447
***Meliola podocarpicola***
*Podocarpus nagi*
China 5781
taxonomy 5781
***Meliola quercicola***
*Quercus*
Hunan 4799
taxonomy 4799
***Meliola sempeiensis* var. *nicobarica,*** *Litsea*, Andaman and Nicobar Islands 8783
**Meliolaceae,** Karnataka 7360
***Melissa officinalis,*** bacteria, France 5590
***Meloderma sharmarum,*** IMI descriptions 3394
***Meloidogyne,*** interactions, *Fusarium* 3475
***Meloidogyne arenaria,*** interactions, *Pseudomonas solanacearum*, tomatoes 2901
***Meloidogyne hapla,*** interactions, groundnuts, pot rot 1101
***Meloidogyne incognita***
interactions
*Aspergillus niger*, tomatoes 1550
*Fusarium oxysporum* f.sp. *fragariae*, strawberries 3851
*Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6097
*Fusarium oxysporum* f.sp. *vasinfectum*, cotton 3950, 8741
*Fusarium solani*
okras 6138
pawpaws 1083-1084
*Piper nigrum* 623
*Glomerella tucumanensis*, sugarcane 5482
*Glomus*, mycorrhizas 5723
*Macrophomina phaseolina*, chickpeas 956, 3705, 6019, 7620
*Phytophthora capsici*, *Capsicum* 5821
*Phytophthora nicotianae* var. *parasitica*, sesame 5821
*Phytophthora palmivora*, *Piper betle* 4881
*Rhizoctonia solani*
cardamoms 8825
cowpeas 4503
okras 6138
tomatoes 1550
***Meloidogyne javanica***
interactions
*Fusarium oxysporum* f.sp. *fragariae*, strawberries 3851
*Pythium aphanidermatum*, *Zingiber officinale* 8826
***Meloidogyne naasi,*** interactions, *Acremonium lolii*, *Lolium perenne* 5985
**Melon necrotic spot carmovirus**
melons
detection 7708
Japan 7708
serotypes 7708
**Melon vein-banding mosaic potyvirus**
melons
characteristics 3789
Taiwan 3789
**Melons** (*Cucumis melo*)
*Acremonium*
control 7721, 7723
rootstocks 7723
screening 8590
Spain 5366, 7711, 7721
varietal reactions 5366, 7711, 7723
*Alternaria alternata*, physiology 8593
*Alternaria cucumerina*
environmental factors 452
models 452, 1033
yield losses 1033

**Melons** *cont.*
- beet pseudo-yellows virus
  - breeding 7707
  - Spain 7707
- cucumber mosaic cucumovirus
  - coat proteins 2912
  - genetic engineering 2912
- *Didymella bryoniae*
  - hosts 8594
  - Xinjiang 8594
- diseases
  - California 4291
  - control 4291, 4904
- *Erysiphe cichoracearum*, genetics 6133
- fungicide residues 1830
- fungicides, activity 445
- *Fusarium oxysporum*
  - Rajasthan 5374
  - varietal reactions 5374
- *Fusarium oxysporum* f.sp. *melonis*
  - races 8592
  - screening 5367
  - Spain 8592
  - varietal reactions 8592
- *Fusarium pallidoroseum*, physiology 8593
- *Fusarium proliferatum*
  - seeds 5124
  - vegetative compatibility groups 5124
- *Fusarium solani*, soil amendments 3807
- *Geotrichum candidum*, fungicide tolerance 4952
- lettuce infectious yellows virus, varietal reactions 5352
- melon necrotic spot carmovirus
  - detection 7708
  - Japan 7708
  - serotypes 7708
- melon vein-banding mosaic potyvirus
  - characteristics 3789
  - Taiwan 3789
- *Monosporascus*
  - Spain 7722
  - varietal reactions 7722
- *Monosporascus cannonballus*, pathogenicity 8602
- *Myrothecium roridum*, genetics 7712
- *Penicillium viridicatum*, physiology 8593
- pesticide residues, analysis 1226
- *Phytophthora drechsleri*, reservoir hosts 1562
- postharvest decay, control 5378
- *Pseudomonas syringae*, France 3811
- *Pseudomonas syringae* pv. *lachrymans*, Himachal Pradesh 3810
- *Pseudoperonospora cubensis*
  - control 2920, 3800
  - India 2920
  - pathotypes 447
  - proteins 6897
  - resistance 6897
  - virulence 447
- *Pythium*, inoculum 7389
- *Pythium aphanidermatum*, pathogenicity 7724
- *Rhizoctonia solani*, pathogenicity 7724
- *Rhizopus stolonifer*, physiology 8593
- *Sphaerotheca fuliginea*
  - epidemiology 2919
  - genetics 6133, 8591
  - Italy 2919
  - Spain 8591
  - susceptibility 4601
  - testing 5365, 6891
- storage decay
  - control 3808
  - Israel 3808
  - seeds 6899
- viruses
  - France 6889
  - Mexico 6890
  - screening 5354
  - United Arab Emirates 5354
- watermelon mosaic 2 potyvirus, breeding 5353
- yellowing
  - breeding 8587
  - Spain 8587
  - varietal reactions 5355
  - viruses 5355

**Melons** *cont.*
- zucchini yellow mosaic potyvirus, genetic engineering 6588

***Memnoniella echinata***, India 3402

***Mentha***, diseases, nomenclature 1361

***Mentha arvensis***
- *Erysiphe*, Argentina 7157
- *Macrophomina phaseolina*, Karnataka 8831
- *Puccinia menthae*, Argentina 7157
- *Rhizoctonia solani*, Karnataka 8831

***Mentha piperita***
- bacteria, France 5590
- *Puccinia menthae*, *in vitro* culture 4014

***Mentha spicata***
- plant extracts, antifungal agents 2483
- plant oils, antifungal agents 2483

**Mepronil**
- activity
  - *Gaeumannomyces graminis* var. *tritici*, wheat 2640
  - mycorrhizal fungi, soil 3345
  - *Rhizoctonia solani*, wheat 2640
- control, *Corticium rolfsii*, soyabeans 357
- soil treatment 3345

***Mesophellia pachythrix***, ***Eucalyptus***, mycorrhizas 1843

**Metacid**
- control
  - *Pseudomonas fuscovaginae*, rice 919
  - *Pseudomonas syringae* pv. *syringae*, rice 919
- seed treatment, rice 919

**Metal ions**
- activity
  - *Fusarium oxysporum* 8148
  - *Phytophthora* 8148
  - *Pythium aphanidermatum* 8148
  - *Thielaviopsis basicola* 8148

**Metalaxyl**
- activity
  - *Euphorbia pulcherrima* 4856-4857
  - *Phytophthora capsici* 7700
  - *Phytophthora cinnamomi*, *Leucadendron* 6330
  - *Phytophthora infestans*, potatoes 4521, 4523
  - *Phytophthora nicotianae* var. *parasitica* 7247
  - *Pythium oligandrum*, soil 2546
- biodegradation, soil 3857
- control
  - *Albugo candida*, Indian mustard 1537, 5313
  - *Capsicum*, diseases 7701
  - hops, diseases 8832
  - lucerne, diseases 7576
  - *Macadamia*, decline 7813
  - maize, seedborne organisms 5912
  - *Peronosclerospora sorghi*, maize 4390
  - *Peronospora destructor*, onions 422, 425, 6073, 6075
  - *Peronospora humuli*, hops 2419
  - *Peronospora parasitica*, Indian mustard 1537
  - *Peronospora tabacina*, tobacco 3105
  - *Phytophthora*
    - chrysanthemums 3185
    - pawpaws 8660
  - *Phytophthora cactorum*, apples 3823, 6922
  - *Phytophthora capsici*, *Capsicum* 8581
  - *Phytophthora cinnamomi*
    - avocados 7011
    - *Rhododendron* 1176
  - *Phytophthora colocasiae*, *Colocasia esculenta* 992
  - *Phytophthora drechsleri*, cucumbers 7720
  - *Phytophthora drechsleri* f.sp. *cajani*, pigeon peas 2811
  - *Phytophthora infestans*, potatoes 398, 6054, 6820
  - *Phytophthora nicotianae* var. *nicotianae*
    - aubergines 8571
    - tobacco 8715
  - *Phytophthora nicotianae* var. *parasitica*
    - *Gypsophila paniculata* 5576

**Metalaxyl** *cont.*
- control *cont.*
  - *Phytophthora nicotianae* var. *parasitica cont.*
    - *Saintpaulia ionantha* 3187
    - tobacco 4767
  - *Phytophthora palmivora*, cocoa 557
  - *Pinus*, damping off 601
  - potatoes, diseases 2832
  - *Pseudoperonospora cubensis*
    - cucumbers 1036, 5377
    - Cucurbitaceae 4602
    - melons 2920, 3800
  - *Pythium*
    - chrysanthemums 3185
    - cotton 1133
    - rice 5952
  - *Pythium aphanidermatum*, cucumbers 5372
  - *Pythium ultimum*, beetroots 420
  - *Rhizoctonia solani*
    - beetroots 420
    - cotton 3112
    - *Euphorbia pulcherrima* 4856
  - *Sclerospora graminicola*, *Pennisetum americanum* 3628
  - sesame, diseases 8696
  - sugarcane, diseases 1110
  - tobacco, diseases 2351
- fungicide residues
  - grapes 3857, 6962
  - soil 2469, 6962
- fungicide tolerance
  - *Peronospora tabacina* 3106
  - *Phytophthora cinnamomi*, avocados 6220
  - *Phytophthora infestans* 399, 1511, 2839-2841, 4521, 6051
  - *Phytophthora megasperma* f.sp. *glycinea* 359
  - *Phytophthora nicotianae* var. *nicotianae* 3107
  - *Phytophthora sojae* 7322
  - *Pseudoperonospora cubensis* 3805
- photolysis 3296
- seed treatment
  - cucumbers 2216
  - Indian mustard 5313
  - maize 4390
  - peas 7614
  - *Pennisetum americanum* 7519
- uptake, faba beans 5690

**Metam**
- activity
  - *Thielaviopsis basicola*
    - soil 6273
    - tobacco 6273
- control, lucerne, diseases 7576

***Metarhizium anisopliae***, laboratory tests, fungicides 7202

**Metconazole**
- control
  - cereals, diseases 8098
  - crops, diseases 8098

**Methionine**, control, *Phytophthora infestans*, potatoes 4525

**Methomyl**, activity, peaches, phylloplane fungi 2242

**2-Methoxyethylmercury chloride**
- control
  - *Gibberella fujikuroi*, sugarcane 8700
  - sugarcane, diseases 1110
  - *Ustilago scitaminea*, sugarcane 8699
  - *Ustulina deusta*, *Hevea brasiliensis* 2368
- seed treatment
  - groundnuts 1103, 8690
  - *Stylosanthes guianensis* 2773
  - *Vigna umbellata* 6026
  - watermelons 3799
- soil treatment 7153

**Methyl bromide**
- control
  - *Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6865
  - *Phytophthora nicotianae* var. *parasitica*, *Gypsophila paniculata* 5576
  - *Plasmodiophora brassicae*, cauliflowers 2868
  - *Rhizoctonia solani*, *Delphinium* 5578

**Methyl bromide** *cont.*
control *cont.*
*Tilletia indica*, spore germination 1396
environmental impact 1829
legislation, USA 5692
persistence, water 71
**Methyl isothiocyanate**
control
*Phytophthora nicotianae* var. *parasitica*, *Gypsophila paniculata* 5576
*Rhizoctonia solani*, *Delphinium* 5578
**Methyl parathion** (*see* Parathion-methyl)
**Methylglyoxal bis(guanylhydrazone)**, control, *Puccinia graminis*, wheat 3522
**Methylisothiocyanate**, control, oil palms, *Ganoderma* 2317
**Metiram**
control
*Peronospora destructor*, onions 422, 425, 6075
*Phytophthora infestans*, potatoes 2159
*Podosphaera leucotricha*, apples 2939
potatoes, diseases 2832
*Pseudoperonospora cubensis*, cucumbers 1036
*Puccinia recondita*, wheat 3530
*Pyrenophora dictyoides*, *Festuca pratensis* 6754
tobacco, diseases 2351
*Venturia inaequalis*, apples 2939
nontarget effects, mites 1818-1819
**Metoben**, control, *Erysiphe graminis*, barley 1407
**Metomeclan**, fungicide tolerance, *Botrytis cinerea* 6189
***Metopolophium festucae***, transmission, maize dwarf mosaic potyvirus 5928
**Metsulfovax**, control, *Magnaporthe grisea*, *Stenotaphrum secundatum* 1726
**Mexico**
*Acacia farnesiana*, mycorrhizas 4982
*Amaranthus*
*Alternaria alternata* 5975
*Macrophoma* 5975
apples
*Podosphaera leucotricha* 6915, 6921
*Venturia inaequalis* 6915
asparagus
*Fusarium oxysporum* f.sp. *asparagi* 8526
*Gibberella fujikuroi* 8526
avocados, *Phytophthora cinnamomi* 6220, 7011
bananas, *Mycosphaerella fijiensis* 6976
barley
barley yellow dwarf luteovirus 7437
*Puccinia striiformis* 5893, 7486
*Caesalpinia eriostachys*, mycorrhizas 4152
*Capsicum*, pepper hausteco virus 8575
coconuts
*Botryodiplodia theobromae* 7022
*Ceratocystis paradoxa* 7022
*Pestalotiopsis palmarum* 7022
coffee, *Hemileia vastatrix* 2338
*Cordia alliodora*, mycorrhizas 4152
*Dioon edule*, mycorrhizas 4987
forests, diseases 7080
grapes
*Ascochyta* 6191, 6970
*Uncinula necator* 6966
integrated pest management 6389
*Ipomoea wolcottiana*, mycorrhizas 4152
*Leucaena esculenta*, mycorrhizas 3344
limes
*Alternaria limicola* 6990
*Capnodium citri* 6990
*Gloeosporium limetticola* 6990
lucerne
*Fusarium oxysporum* 6755
*Rhizoctonia solani* 6755
*Verticillium albo-atrum* 6755
maize, diseases 5916
melons, viruses 6890
*Mimosa pigra*, fungi 4031
okras
*Fusarium solani* 6138
*Rhizoctonia solani* 6138
onions
*Alternaria porri* 7662
**Mexico** *cont.*
onions *cont.*
*Peronospora destructor* 7662
oranges, decline 6981
pawpaws, papaya ringspot potyvirus 4684, 7002
peaches
*Sphaerotheca pannosa* var. *persicae* 6164, 6945
*Stigmina carpophila* 6164
*Taphrina deformans* 6164
*Tranzschelia discolor* 6937
pesticides, legislation 5678
*Phaseolus vulgaris*
diseases 6775, 6782
*Macrophomina phaseolina* 6786
*Rhizoctonia solani* 6786
*Physalis ixocarpa*, *Entyloma australe* 6908-6909
*Phytophthora infestans*, DNA 7321
*Pithecellobium mangense*, mycorrhizas 4152
plums, *Tranzschelia discolor* 6937
*Populus tremuloides*
*Cytospora* 7100
*Marssonina* 7100
*Mycosphaerella populorum* 7100
potatoes
alfalfa mosaic alfamovirus 6812
*Phytophthora infestans* 231, 2156, 3715
potato spindle tuber viroid 6804
potato X potexvirus 6808
*Rhizoctonia solani* 6823
*Pseudotsuga menziesii*
*Gibberella baccata* 7123
*Gibberella fujikuroi* 7123
rice, *Pyricularia oryzae* 6734
sesame
*Fusarium* 7037
*Macrophomina phaseolina* 7037
*Pythium* 7037
soil
diseases 5916
mycorrhizal fungi 4982
*Solanum*, *Phytophthora infestans* 2156-2157
sorghum
*Macrophomina phaseolina* 1435, 1439
*Puccinia purpurea* 3614
soyabeans, diseases 6765
squashes, *Sphaerotheca fuliginea* 6894
*Tillandsia*, *Discosia tillandsiae* 770
tomatoes
*Alternaria solani* 6872
*Oidium* 6107
*Phytophthora infestans* 231, 6872
*Stemphylium* 6872
tobacco etch potyvirus 6095
tobacco mosaic tobamovirus 6095
wheat
barley yellow dwarf luteovirus 7437, 8270
*Cochliobolus sativus* 8312
diseases 6641
*Gibberella zeae* 6674
*Puccinia recondita* 257, 6646
*Puccinia striiformis* 257
***Michelia champaca***
plant extracts, antifungal agents 6718
*Rhizoctonia solani*
control 6298
Uttar Pradesh 6298
**Miconazole**, activity, fungi 7243
***Microcyclus ulei***
*Hevea*
control 579
phenolic compounds 2367
resistance 2367
*Hevea brasiliensis*
Brazil 5522
Guatemala 4786
phenolic compounds 3960
resistance 3960
reviews 5522
***Microdiplodia frangulae***, taxonomy 3409
***Microdochium bolleyi***
barley
histopathology 4371
infection 4371
***Microdochium bolleyi*** *cont.*
control, *Gaeumannomyces graminis* var. *tritici*, wheat 274
maize, Germany 880
oats
roots 5131
tropisms 5131
wheat
growth 5882
roots 5131
tropisms 5131
***Microdochium dimerum***
bananas
control 494
postharvest decay 494
figs
California 7788
virulence 7788
***Microdochium tabacinum***
fodder crops
Egypt 6628
toxins 6629
**Microorganisms**
biodiversity, reports 8862
genetic engineering, environment 7182
***Microsphaera begoniae***, *Begonia*, control 6344
***Microsphaera diffusa***, soyabeans, genetics 361
***Microsphaera platani***
*Platanus*
Azerbaijan 3980
Italy 7955
***Microsphaera vanbruntiana***
*Sambucus nigra*
France 1158
spread 1158
***Microsphaeropsis***, bananas, Oman 495
***Microstoma juglandis***, walnuts, Italy 514
***Microxyphium columnatum***
mangoes
control 1610
Uttar Pradesh 1610
**Middle East**
citrus, diseases 5439
vegetables, diseases 5843
**Mie-Bing-Wei**, control, *Fusarium oxysporum* f.sp. *phaseoli*, *Phaseolus vulgaris* 5259
***Mikania micrantha***
*Basidiophora montana*
Brazil 766
taxonomy 766
**Millets**
*Colletotrichum graminicola*
conidia 6635
control 6635
diseases, Sahel 7518
*Sclerospora graminicola*
Burkina Faso 5935
control 5935
Ustilaginales
China 315
varietal reactions 315
***Mimosa***, *Fusarium*, control 3129
***Mimosa pigra***
*Botryodiplodia theobromae*
insects 2427
Northern Territory 2427
fungi
biological control 4031
Mexico 4031
*Sphaerulina mimosae-pigrae*
biological control 2430
taxonomy 2430
**Mined land**
mycorrhizas
fertilizers 3337
irrigation 3337
Wyoming 3337
**Mineral deficiencies**
activity
*Aspergillus carneus* 3194
*Aspergillus ellipticus* 3194
boron
mangoes 3025
sugarbeet 544
cotton, reviews 2365
iron, lemons 3020
magnesium, ornamental plants 4876
manganese, lemons 3020
zinc, rice 2753

**Mineral oils**, activity, kiwifruits 7794
***Minettia lupulina***, transmission, *Claviceps purpurea* 6750
***Mirabilis jalapa***, plant extracts, antiviral agents 157
***Miscanthus sinensis***, mycorrhizas, Korea Republic 7303
**Mites** (*see also* Acari)
***Moellerodiscus***
*Festuca arundinacea*
cultural methods 932
varietal reactions 932
***Moesziomyces penicillariae***, *Pennisetum americanum*, genetic resources 2070
***Mokara***
cymbidium mosaic potexvirus, elimination 8817
odontoglossum ringspot tobamovirus, elimination 8817
**Moldova**
crops, diseases 1976
maize, Ustilaginales 885
marrows, *Xanthomonas* 453
potatoes, diseases 817
sunflowers
*Diaporthe helianthi* 2308
diseases 3899
tomatoes, diseases 817
triticale
*Alternaria alternata* 875
*Fusarium* 875
*Gibberella zeae* 875
**Molecular genetics**
abutilon mosaic bigeminivirus
DNA 8218
nucleotide sequences 194, 8218
*Acremonium*
evolution 8411
nucleotide sequences 7166
phylogeny 8411
*Acremonium coenophialum*, genetic transformation 7572
African cassava mosaic bigeminivirus
coat proteins 3440
DNA 795
infectivity 795, 1328
replication 1328
transmission 3440
*Agrobacterium*
DNA 656
host parasite relationships 656
plasmids 7184
reviews 656
*Agrobacterium rhizogenes*
gene expression 3108, 3944, 7185
nucleotide sequences 7185
octopine 6396
*Agrobacterium tumefaciens*
DNA 4913
DNA probes 3236
enzymes 655
gene expression 1207-1208, 1784, 3230-3232, 3234, 4915-4916, 5647-5648, 7190
gene transfer 7190
genetic transformation 8028
nucleotide sequences 1206, 3231, 3237, 4915-4916, 5647, 5649
octopine 5649, 6396
pathogenicity 655
plasmids 1205-1206, 4915, 6395, 7189
virulence 1207-1208, 1784, 3234, 4057, 4916-4917, 6193
*Agrobacterium vitis*
octopine 8030
plasmids 8030
*Alcaligenes*, siderophores 1293
Andean potato mottle comovirus, RNA 5084
*Apiognomonia errabunda*, restriction fragment length polymorphism 3133
apple chlorotic leafspot virus
nucleotide sequences 3451
RNA 3451
arabis mosaic nepovirus, satellite RNA 8231
*Aspergillus flavus*, DNA 7342
*Aspergillus niger*, enzymes 8158
avocado sunblotch viroid, nucleotide sequences 7803
**Molecular genetics** *cont.*
avocado virus 1, DNA probes 2273
bacteria
DNA probes 5
genetic engineering 6458
nucleotide sequences 6211
bacteriophages, RNA 4925, 4928-4929, 4931-4932
banana bunchy top virus, nucleotide sequences 4251
barley mild mosaic bymovirus, nucleotide sequences 3562, 5068
barley stripe mosaic hordeivirus
DNA 5056
infectivity 1406
RNA 1406
barley yellow dwarf luteovirus
DNA probes 1329
satellite RNA 1342
translation 8200
bean yellow mosaic potyvirus
coat proteins 4249
nucleotide sequences 189, 4249
beet cryptic III alphacryptovirus, nucleotide sequences 8230
beet curly top intergeminivirus
coat proteins 3440
transmission 3440
beet necrotic yellow vein furovirus
coat proteins 803
gene expression 1346
replication 803
beet western yellows luteovirus, genetic engineering 3445
beet yellows closterovirus
coat proteins 3446
gene expression 3446
belladonna mottle tymovirus
coat proteins 7411
taxonomy 7411
biological control agents, genetic engineering 6382
*Botrytis cinerea*
enzymes 5748
fungicide tolerance 3376
mating types 3376
pathogenicity 5745
broad bean mottle bromovirus, nucleotide sequences 8217
brome mosaic bromovirus
coat proteins 5080
genome analysis 6586
nucleotide sequences 5080
recombination 5095
replication 5094, 5104-5105, 5175
RNA 862, 5094-5095, 5104-5105
RNA polymerase 5175
translation 5815
bymoviruses, genomes 1934
carnation mottle carmovirus
cloning 1338
coat proteins 1338
carnation ringspot dianthovirus
movement proteins 5072
nucleotide sequences 5072
cauliflower mosaic caulimovirus
coat proteins 2588
DNA binding proteins 5090
gene expression 806, 1943-1945
movement proteins 1947
nucleotide sequences 6591, 8214
transmission 806, 6591
*Cenococcum geophilum*
introns 8161
RNA 8161
*Ceratocystis*, DNA 7370
*Ceratocystis ulmi*, restriction fragment length polymorphism 5017
*Cercospora kikuchii*
gene expression 8428
toxins 1484, 8428
cherry leaf roll nepovirus
nucleotide sequences 7906
RNA 3452
citrus exocortis viroid, pathogenicity 2575
citrus tristeza closterovirus
coat proteins 3446, 8209
DNA probes 6984
gene expression 3446
isolates 8209
**Molecular genetics** *cont.*
citrus tristeza closterovirus *cont.*
nucleotide sequences 796
RNA probes 499, 6985
*Clavibacter michiganensis* subsp. *michiganensis*, pathogenicity 1015
*Clavibacter michiganensis* subsp. *sepedonicus*, DNA probes 7191
*Claviceps purpurea*
DNA 8152
genetic transformation 1285
plasmids 8152
clover yellow mosaic potexvirus
gene expression 1330
infectivity 4260
nucleotide sequences 1330
RNA 5101
clover yellow vein potyvirus, nucleotide sequences 189
*Cochliobolus carbonum*
DNA 5924
races 5924
*Cochliobolus heterostrophus*
enzymes 736
mating types 5761
nucleotide sequences 736, 5761
*Cochliobolus lunatus*, genetic transformation 1286
coconut foliar decay virus, DNA probes 2319
*Colletotrichum*
DNA fingerprinting 824
genetic transformation 6533
genome analysis 6533
reviews 6533
*Colletotrichum acutatum*, restriction fragment length polymorphism 7776
*Colletotrichum gloeosporioides* f.sp. *aeschynomene*
fungicide tolerance 4185
genetic transformation 4185
nucleotide sequences 7338
*Colletotrichum graminicola*
DNA 309
genetic transformation 3370
isolates 309
nucleotide sequences 3370
commelina yellow mottle badnavirus, gene expression 1936
comoviruses, genomes 1934
cowpea chlorotic mottle bromovirus
movement proteins 210
nucleotide sequences 8217
cowpea mosaic comovirus
gene expression 5063
infectivity 7623
movement proteins 8468
*Cronartium fusiforme*, DNA 6310
*Cryphonectria parasitica*
enzymes 515, 8665
gene transfer 6225
genetic transformation 106
hypovirulence 106, 515
mitochondrial DNA 7811
nucleotide sequences 8665
virulence 5461
cucumber mosaic cucumovirus
coat proteins 1129, 7882
DNA 3454
isolates 5060
nucleotide sequences 1129, 6091
restriction fragment length polymorphism 5060
RNA 5050
satellite RNA 5055, 5324, 5326, 6091
symptoms 4761
transmission 5050
cucumber necrosis necrovirus
nucleotide sequences 8232
RNA 8232
cymbidium mosaic potexvirus
coat proteins 2573
detection 4246
dasheen mosaic potyvirus, nucleotide sequences 4245
eggplant mosaic tymovirus, cloning 7408
*Epichloë*
evolution 8411
phylogeny 8411
*Erwinia amylovora*
antibiotic resistance 7

**Molecular genetics** *cont.*
*Erwinia amylovora cont.*
elicitors 5651
nucleotide sequences 1202, 1209
pathogenicity 657, 1202, 7192
RNA probes 8027
virulence 6400
*Erwinia carotovora*
enzymes 7193
gene expression 8031
nucleotide sequences 3229, 7193, 8031
*Erwinia carotovora* subsp. *carotovora*
DNA 4923
enzymes 658, 4923
gene expression 6402
genetic transformation 4920
nucleotide sequences 5652, 6402
virulence 658
*Erwinia chrysanthemi*
enzymes 655, 2445, 3238, 4922, 6401
gene expression 1212, 3239, 4059, 4921, 8032
iron 1179
nucleotide sequences 660-661, 2445, 3238, 3240, 4922, 6401, 8032
pathogenicity 655, 1179, 4292
*Erwinia herbicola*, enzymes 6403
*Erwinia stewartii*
DNA probes 5196
pathogenicity 7192
*Erysiphe graminis*
karyotypes 6683
nucleotide sequences 7323
figwort mosaic caulimovirus
coat proteins 4259
gene expression 5102, 8222
infectivity 4259
*Fulvia fulva*
DNA 8162
genetic transformation 8162
nucleotide sequences 4585
pathogenicity 4585
protoplast fusion 8162
virulence 437
fungi
evolution 775
genetic engineering 144
mitochondrial DNA 5002
techniques 131
*Fusarium*, restriction fragment length polymorphism 3424
*Fusarium culmorum*, genetic transformation 3378
*Fusarium oxysporum*
DNA 8160
mitochondrial DNA 3797
nucleotide sequences 116
restriction fragment length polymorphism 3797
*Fusarium oxysporum* f.sp. *elaeidis*, restriction fragment length polymorphism 5467
*Fusarium oxysporum* f.sp. *niveum*
mitochondrial DNA 3374
restriction fragment length polymorphism 3374
*Fusarium oxysporum* f.sp. *pisi*
DNA 8457
races 8457
restriction fragment length polymorphism 7617
*Fusarium oxysporum* f.sp. *vasinfectum*, restriction fragment length polymorphism 4777
*Fusarium solani* f.sp. *cucurbitae*, genetic transformation 742
*Fusarium solani* f.sp. *pisi*
enzymes 5027
nucleotide sequences 5027
pathogenesis 5027
*Gaeumannomyces graminis*
DNA probes 1931, 4283
nucleotide sequences 822
restriction fragment length polymorphism 822
geminiviruses
DNA 5806
DNA replication 5082
reviews 1952

**Molecular genetics** *cont.*
*Gibberella fujikuroi*
genetic transformation 5013
nucleotide sequences 5019
*Gibberella pulicaris*
DNA 3363
genetic transformation 8153
nucleotide sequences 3363
*Gibberella zeae*
genetic transformation 3383
nitrogen metabolism 3383
*Gigaspora margarita*, DNA 1865
*Gloeocercospora sorghi*
enzymes 8163
nucleotide sequences 8163
*Glomerella cingulata*
DNA 1929, 2264, 3865
DNA probes 4462
isolates 1929, 6974
nucleotide sequences 8154
restriction fragment length polymorphism 3865, 7776
reviews 6758
*Glomus versiforme*, DNA 1865
grapevine chrome mosaic nepovirus
proteins 5059
RNA 5059
grapevine fanleaf nepovirus
coat proteins 801, 1343
gene expression 801
nucleotide sequences 1343, 8221
RNA 5083
satellite RNA 5077
grapevine stem pitting associated closterovirus, DNA probes 485
*Hebeloma cylindrosporum*, genetic transformation 710
*Heterobasidion annosum*, nucleotide sequences 5765
*Heterobasidion araucariae*, nucleotide sequences 5765
*Hymenoscyphus ericae*
RNA 6502
taxonomy 6502
*Leptosphaeria maculans*
DNA fingerprinting 1625
karyotypes 7324
nucleotide sequences 5463, 8511
pathogenicity 7324, 8511
pathotypes 5463
restriction fragment length polymorphism 4704
*Leptosphaeria nodorum*
DNA fingerprinting 2015
fungicide tolerance 4183
nucleotide sequences 4183
restriction fragment length polymorphism 2015
lettuce mosaic potyvirus
coat proteins 802
nucleotide sequences 802
lucerne transient streak sobemovirus
replication 4261
satellite RNA 4261
*Magnaporthe grisea*
gene mapping 333
host parasite relationships 329
nucleotide sequences 3626
maize rough dwarf fijivirus, nucleotide sequences 8227
maize streak monogeminivirus, genetic engineering 2574
maize stripe tenuivirus
nucleotide sequences 1331, 4256, 5087
RNA 4256
*Melampsora lini*, restriction fragment length polymorphism 6281
microorganisms, genetic engineering 7182
*Monilinia fructicola*, fungicide tolerance 2223
*Morchella conica*, plasmids 7283
mycoplasma-like organisms 7416
classification 3458
DNA 213, 1474, 2595, 3458
DNA probes 1068, 1618, 1953, 3634, 4265, 5109
pathogenesis 1474
restriction fragment length polymorphism 214, 5109

**Molecular genetics** *cont.*
mycoplasma-like organisms *cont.*
reviews 1954
strains 214
mycorrhizal fungi, nucleotide sequences 7301
*Mycosphaerella graminicola*, DNA fingerprinting 6670
*Nectria haematococca*
genetic transformation 7325
phytoalexins 6020-6021
nepoviruses, genomes 1934
*Neurospora crassa*, fungicide tolerance 6444
ononis yellow mosaic tymovirus, cloning 7408
Oomycetes, gene expression 734
*Ophiosphaerella herpotricha*, DNA probes 3999
*Ophiostoma novo-ulmi*, restriction fragment length polymorphism 5017
ourmia melon virus, RNA 2590
papaya ringspot potyvirus, nucleotide sequences 2581, 5079
paprika mild mottle virus, nucleotide sequences 7698
parsnip yellow fleck virus
nucleotide sequences 4257, 5085
taxonomy 4257
pea early browning tobravirus, gene expression 950
pea enation mosaic enamovirus
nucleotide sequences 3436
RNA 3436
peach latent mosaic viroid
nucleotide sequences 196
RNA 196
peanut stunt cucumovirus, gene expression 4255
pear blister canker viroid, nucleotide sequences 5394
*Penicillium*, fungicide tolerance 2223
pepper mild mottle tobamovirus, nucleotide sequences 7698
pepper mottle potyvirus, nucleotide sequences 187
*Peronosclerospora*
DNA 7318
RNA 7318
*Phialophora*, DNA probes 1931
*Phytophthora*
DNA 105
DNA fingerprinting 5011
genetic transformation 7390
phylogeny 105
RNA 7317
*Phytophthora fragariae* var. *fragariae*, restriction fragment length polymorphism 4218
*Phytophthora fragariae* var. *rubi*, restriction fragment length polymorphism 4218
*Phytophthora infestans*
DNA 1283, 7321
gene expression 734, 4524
genetic analysis 1283
genetic transformation 7319
isoenzymes 3361
nucleotide sequences 977
pathogenesis 4524
*Phytophthora megasperma*, nucleotide sequences 4181
*Phytophthora megasperma* f.sp. *glycinea*
DNA probes 363
gene expression 734
isolates 363
*Phytophthora porri*, restriction fragment length polymorphism 3749
*Phytophthora sojae*
fungicide tolerance 6515, 7322
races 6516
plant diseases, reviews 2597
*Plasmopara halstedii*, nucleotide sequences 7339
plum pox potyvirus
gene expression 8225
helper component 8225
nucleotide sequences 4252
proteinases 2577
recombination 4252
RNA 8216

**Molecular genetics** *cont.*
plum pox potyvirus *cont.*
RNA amplification 1056
transmission 6589
poa semilatent hordeivirus
nucleotide sequences 5058
RNA 5058
poplar mosaic carlavirus, nucleotide sequences 5089
potato A potyvirus, nucleotide sequences 208
potato aucuba mosaic potexvirus, transmission 8228
potato M carlavirus, RNA 1332
potato S carlavirus, DNA probes 2155
potato spindle tuber viroid
cloning 1337
DNA probes 5098
replication 4247
potato T capillovirus, nucleotide sequences 8211
potato X potexvirus
gene expression 1345, 1668
genetic transformation 8228
nucleotide sequences 1344, 1668, 5504
RNA 1344, 5096
translation 5096
transmission 8228
potato Y potyvirus
coat proteins 8726
nucleotide sequences 172, 195, 5818, 8213, 8726
RNA 4760
strains 195
potyviruses
enzymes 8215
genomes 1934
nucleotide sequences 159, 164
RNA probes 5097
prunus necrotic ringspot ilarvirus, RNA probes 1583
*Pseudocercosporella herpotrichoides*
DNA 3377
DNA probes 1377
identification 1377
isolates 3377
restriction fragment length polymorphism 3377
*Pseudomonas*
biological control 3925
DNA 3246
enzymes 1788
nucleotide sequences 4061, 7197
plasmids 6405
siderophores 5653, 6406
*Pseudomonas aureofaciens*, antibiotics 852
*Pseudomonas cepacia*, genetic transformation 4926
*Pseudomonas fluorescens*
antibiotics 852
enzymes 4927
secondary metabolites 666
*Pseudomonas glumae*, pathogenicity 6749
*Pseudomonas maltophila*, antagonism 3247
*Pseudomonas putida*
agglutination 6788
gene expression 6788
genome analysis 6404
nucleotide sequences 3229
siderophores 6406
*Pseudomonas solanacearum*
DNA probes 665
enzymes 5654
genetic analysis 8497
genome analysis 6404
nucleotide sequences 1202, 5654, 7197, 8035
pathogenicity 1202, 4062
plasmids 4062
virulence 663, 4930
*Pseudomonas syringae*
ice nucleation 6408
pathogenicity 6787
plasmids 8033
restriction fragment length polymorphism 1213
siderophores 6406

**Molecular genetics** *cont.*
*Pseudomonas syringae* pv. *glycinea*, coronatine 8430
*Pseudomonas syringae* pv. *lachrymans*
enzymes 655
pathogenicity 655
*Pseudomonas syringae* pv. *maculicola*, virulence 2446
*Pseudomonas syringae* pv. *phaseolicola*
gene expression 371, 5266
host parasite relationships 662
nucleotide sequences 1202
pathogenicity 1202
toxins 371
*Pseudomonas syringae* pv. *pisi*, virulence 2446
*Pseudomonas syringae* pv. *syringae*
genetic transformation 671
hypersensitivity 3243
nucleotide sequences 3243
pathogenicity 6789
*Pseudomonas syringae* pv. *tomato*
gene expression 7692
pathogenicity 3776
*Pseudomonas syzygii*, nucleotide sequences 7197
*Puccinia coronata*, DNA 1982
*Puccinia graminis*
DNA 1982
infection 2532
RNA 3367
*Puccinia recondita*, DNA 1982
*Puccinia sorghi*, DNA 2536
*Pyrenophora brassicae*
gene expression 5314
genetic transformation 5314
*Pyricularia oryzae*
DNA 5958
isolates 5958
*Pythium heterothallicum*
heterothallism 2533
restriction fragment length polymorphism 2533
*Pythium splendens*
heterothallism 2533
restriction fragment length polymorphism 2533
*Pythium sylvaticum*
heterothallism 2533
restriction fragment length polymorphism 2533
raspberry bushy dwarf idaeovirus, nucleotide sequences 5086
raspberry ringspot nepovirus, nucleotide sequences 5070
red clover mottle comovirus
nucleotide sequences 5062, 5071
RNA 5062
*Rhizoctonia solani*, DNA 8157
rice black-streaked dwarf fijivirus, nucleotide sequences 8227
rice dwarf phytoreovirus
nucleotide sequences 1339, 2594
translation 2589
rice stripe tenuivirus
nucleotide sequences 4258, 5091
proteins 3444
RNA 3444, 4258
RNA polymerase 5091
rice tungro bacilliform badnavirus
DNA 8369
nucleotide sequences 1341
reviews 1949
rice tungro spherical ribotungrovirus, reviews 1949
*Saprolegnia ferax*, RNA 7317
*Sclerotinia fuckeliana*, reviews 5744
*Sclerotinia homoeocarpa*, fungicide tolerance 2223
*Sclerotinia sclerotiorum*, DNA fingerprinting 519
*Scytalidium vaccinii*
RNA 6502
taxonomy 6502
shallot X virus, nucleotide sequences 5081
sonchus yellow net nucleorhabdovirus, replication 1667
soybean mosaic potyvirus, nucleotide sequences 5245, 7414

**Molecular genetics** *cont.*
*Spiroplasma citri*, nucleotide sequences 5110, 5112
squash leaf curl geminivirus, replication 799
*Streptomyces*, restriction fragment length polymorphism 3735
*Streptomyces scabies*
enzymes 5658
gene expression 5658
subterranean clover mottle sobemovirus
nucleotide sequences 4244
satellite RNA 4244
sugarcane bacilliform badnavirus, nucleotide sequences 3437
sugarcane Fiji disease fijivirus, RNA 1640
sugarcane streak monogeminivirus, nucleotide sequences 8212
sunn-hemp mosaic tobamovirus, movement proteins 210
sweet clover necrotic mosaic dianthovirus, nucleotide sequences 5073
*Tilletia controversa*, karyotypes 3537
*Tilletia tritici*, karyotypes 3537
tobacco etch potyvirus
gene mapping 171
genetic transformation 2576
proteinases 2577
proteins 5093
tobacco mosaic satellite virus
coat proteins 6592
nucleotide sequences 8207
RNA 6592
tobacco mosaic tobamovirus
coat proteins 1661, 7402-7403
DNA 3100
gene expression 7404, 8721
mutants 7403
nucleotide sequences 5814
proteins 7059
RNA 1663
RNA amplification 794
symptoms 3934
translation 793, 5814, 7402
tobacco necrosis necrovirus, gene expression 5505
tobacco necrosis satellite virus 2
nucleotide sequences 8219
RNA 8219
tobacco rattle tobravirus
translation 2349
transmission 8229
tobacco ringspot nepovirus
replication 3443
satellite RNA 3443
tobacco vein mottling potyvirus
gene expression 8220
proteins 8729
tomato apical stunt viriod, pathogenicity 2575
tomato aspermy cucumovirus
RNA 5050
transmission 5050
tomato (Australian) leafcurl bigeminivirus, nucleotide sequences 3438
tomato black ring nepovirus
proteins 5088
translation 5088
tomato bushy stunt tombusvirus
coat proteins 6587
nucleotide sequences 3441
tomato golden mosaic bigeminivirus
gene expression 1340
induced resistance 7881
replication 799, 7412
tomato mottle geminivirus
DNA 3769
nucleotide sequences 5327
tomato ringspot nepovirus, RNA probes 5411
tomato spotted wilt tospovirus
nucleotide sequences 5061, 5065
RNA 5076, 8210
transcription 5061
tomato yellow leaf curl bigeminivirus, DNA 434, 2190
tombusviruses, nucleotide sequences 7395

**Molecular genetics** *cont.*
tospoviruses, nucleotide sequences 5052
*Trichoderma harzianum*
enzymes 113
genetic transformation 1296
*Trichoderma longibrachiatum*
gene expression 8165
genome analysis 743
nucleotide sequences 8165
*Trichoderma viride*
gene expression 6538
genetic engineering 145
genetic transformation 1296
turnip crinkle carmovirus
infectivity 5309
RNA 5309
satellite RNA 1946
turnip mosaic potyvirus
DNA amplification 798
nucleotide sequences 5064, 7407
RNA 2593
transmission 7407
turnip yellow mosaic tymovirus
movement proteins 6844
nucleotide sequences 5092, 6844
pathogenicity 2579
RNA 5092, 8839
*Uromyces appendiculatus*
genetic transformation 368, 7327
infection 2532
restriction fragment length polymorphism 3414
*Uromyces appendiculatus* var. *crassitunicatus*, restriction fragment length polymorphism 3414
*Ustilago segetum*
DNA 8184
mating types 5020
*Ustilago violacea*, restriction fragment length polymorphism 1290
*Ustilago zeae*
fungicide tolerance 1289, 8350
gene expression 2054
mating types 108, 883-884, 1418, 4388, 5020
nucleotide sequences 5185, 7330
pathogenicity 883, 6702
phenotypes 6702
plasmids 2054, 7329
siderophores 883
*Venturia inaequalis*, fungicide tolerance 2223-2224
*Venturia pirina*, fungicide tolerance 2223
*Verticillium*, restriction fragment length polymorphism 1292
*Verticillium albo-atrum*, restriction fragment length polymorphism 4220
*Verticillium dahliae*, restriction fragment length polymorphism 4220
viroids
evolution 6581
RNA 1951
viruses
codons 6583
DNA probes 792
gene expression 1322
proteins 5051
reviews 784
RNA 784, 5051
transmission 3439
wheat dwarf geminivirus
gene expression 1937
replication 300, 1937
white clover mosaic potexvirus, nucleotide sequences 3442
wound tumour virus, nucleotide sequences 8223
*Xanthomonas campestris*
DNA 1607, 4936
genetic engineering 4064-4065
nucleotide sequences 4936
plasmids 1791
*Xanthomonas campestris* pv. *campestris*
nucleotide sequences 1202, 4935
pathogenicity 1202
xanthan 4935
*Xanthomonas campestris* pv. *citri*
DNA probes 505
genetic transformation 1218

**Molecular genetics** *cont.*
*Xanthomonas campestris* pv. *malvacearum*
genetic transformation 2364, 5657
host parasite relationships 4782
*Xanthomonas campestris* pv. *raphani*
nucleotide sequences 4066
virulence 4066
*Xanthomonas campestris* pv. *translucens*, RNA probes 8027
*Xanthomonas campestris* pv. *vesicatoria*
DNA 7199
gene expression 1011, 5349, 7199
nucleotide sequences 1219, 6089
pathogenicity 1011, 1219
*Xanthomonas oryzae* pv. *oryzae*
plasmids 1791
restriction fragment length polymorphism 1463
virulence 2750
*Xylella fastidiosa*
plasmids 3252
restriction fragment length polymorphism 16
zucchini yellow mosaic potyvirus
coat proteins 5069
nucleotide sequences 7405
transmission 5069, 6589
***Momordica charantia*, viruses, Kerala 3791**
***Momordica cochinchinensis*, *Alternaria cucumerina*, West Bengal 752**
**MON 2400**, control, crops, diseases 8099
**MON 24045**, control, *Rhizoctonia solani*, potatoes 3725
***Monilinia***
apricots
Czechoslovakia 2229
Italy 2228
***Monilinia fructicola***
cherries
control 7750
storage 7750
molecular genetics, fungicide tolerance 2223
nectarines
control 7755
forecasting 7755
New Zealand 7755
peaches
control 7755
forecasting 7755
fungicide tolerance 5412
New South Wales 5412
New Zealand 7755
stone fruits
control 1057
fungicide tolerance 3835, 7747
New Zealand 3835, 7747
Washington 1057
***Monilinia fructigena***
pears
Himachal Pradesh 4619
storage 4619
pome fruits
control 8606
Switzerland 8606
stone fruits
control 8606
Switzerland 8606
***Monilinia laxa***
apricots
epidemiology 2238
Italy 2238
varietal reactions 7749
*Epicoccum nigrum*, antagonism 3847
metabolism, flavipin 5415
nectarines
histopathology 4628
infection 4628
peaches
biological control 3847, 5415, 7759
integrated control 2242
Spain 7759
temperature 3845
pears
Himachal Pradesh 4619
storage 4619
*Penicillium frequentans*, antagonism 2242, 3847
*Penicillium purpurogenum*, antagonism 1890, 3847

***Monilinia laxa*** *cont.*
pome fruits
control 8606
Switzerland 8606
stone fruits
control 1057, 8606
Switzerland 8606
Washington 1057
***Monilinia linhartiana***
quinces
control 8606
Switzerland 8606
***Moniliophthora roreri***
cocoa
Brazil 550
control 550
Peru 3094
reviews 559
South America 559
***Monographella albescens***
laboratory tests, antifungal agents 6719
rice
Cameroon 5209
reviews 5211
varietal reactions 2080, 4415
***Monographella maydis***
maize
assessment 1425
genetics 3603
***Monographella nivalis***
barley, seeds 6636
cereals, seed germination 5852
laboratory tests
fenpropimorph 6529
fungicides 4104
lawns and turf
control 2409
Washington 2409
maize, mixed infections 7501
mulberries, Zhejiang 1588
rye
Germany 7494
testing 7494
varietal reactions 3590
wheat
biological control 8280
China 858
control 6641, 7457, 8323
enzymes 4312
epidemiology 8281
Germany 7457
immunodiagnosis 279
Italy 2648
Mexico 6641
pathogenicity 2687
rhizosphere 2687
Russia 3557
seeds 4312, 6636
taxonomy 858
UK 8281, 8323
***Monosporascus***
melons
Spain 7722
varietal reactions 7722
***Monosporascus cannonballus***
Cucurbitaceae, host range 8602
*Lagenaria siceraria*
Japan 8599
pathogenicity 8599
***Monstera deliciosa*, *Puccinia paullula* f.sp. *monsterae*, urediospores 8819**
**Monterey pine** (*see Pinus radiata*)
***Morchella conica***
culture media 5713
heterokaryosis 5712
molecular genetics, plasmids 7283
***Morchella esculenta*, cultures, morphology 4140**
**Morocco**
*Anchusa italica*, *Puccinia recondita* 1764
cereals, barley yellow dwarf luteovirus 3495, 4298
dates, *Fusarium oxysporum* f.sp. *albedinis* 4687
grasses, barley yellow dwarf luteovirus 3495
olives, *Pseudomonas syringae* pv. *savastanoi* 4712, 6245
tomatoes
*Didymella lycopersici* 4584
*Verticillium dahliae* 4584

**Morocco** *cont.*
wheat, *Puccinia recondita* 1764
**Morpholine fungicides**
activity
*Botrytis cinerea* 1817
*Cercospora beticola* 1817
*Cochliobolus miyabeanus* 1817
*Leptosphaeria nodorum* 1817
*Pseudocercosporella herpotrichoides* 1817
*Rhizoctonia solani* 1817
control
*Erysiphe graminis*, wheat 1817
*Pyrenophora teres*, barley 1817
fungicide tolerance 254
Europe 7253
***Mortierella candelabrum***, *Piptocephalis virginiana*, hyperparasitism 3359
***Mortierella parvispora***, *Picea abies*, soil pH 7945
***Mortierella pusilla***, *Piptocephalis virginiana*, hyperparasitism 3359, 4207, 6517
***Morus alba*** (*see* Mulberries)
***Morus nigra*** (*see* Mulberries)
**Mosses**
shrubs
control 1722
Washington 1722
trees
control 1722
Washington 1722
***Mucor***
cherries
control 7750
storage 7750
peas, Ukraine 952
potatoes, soil management 6813
soil, soil management 6813
***Mucor mucedo***
tomatoes
control 4580
storage 4580
***Mucor rouxii***, antagonism, *Fusarium oxysporum* f.sp. *lycopersici* 4206
***Mucuna pruriens***
*Macrophomina phaseolina*, Nigeria 2775
seedborne fungi, storage 1744
**Mulberries** (*Morus alba* and *M. nigra*)
*Cerotelium fici*, enzymes 480
*Chaetothyrium*, West Bengal 479
*Curvularia affinis*, West Bengal 479
diseases, Tamil Nadu 3852
dwarf
Asia 5107
mycoplasma-like organisms 5107
*Fusarium*
control 1588
pathogenicity 1588
Zhejiang 1588
*Fusarium pallidoroseum*
control 4640
Karnataka 4640
*Mycosphaerella mori*
Himachal Pradesh 6952
Uttar Pradesh 6952
*Myrothecium roridum*
Himachal Pradesh 6952
Uttar Pradesh 6952
*Phloeospora maculans*, Kyushu 6954
*Pseudomonas mori*, control 6953
*Xanthomonas campestris*
Himachal Pradesh 6952
Uttar Pradesh 6952
**Mulching**
activity
*Cochliobolus cynodontis*, lawns and turf 1729
*Magnaporthe grisea*, lawns and turf 1729
*Puccinia coronata*, lawns and turf 1729
soybean dwarf luteovirus, *Phaseolus vulgaris* 6776
control
apples, replant disease 4618
potatoes, diseases 6803
tobacco, viruses 5493
tomatoes, diseases 4567
*Verticillium dahliae*
almonds 5835
apricots 5835
**Mung bean yellow mosaic bigeminivirus**
soyabeans, varietal reactions 2782
*Vigna mungo*
Orissa 5277
varietal reactions 5277
**Mung bean yellow vein mosaic virus**
*Vigna radiata*
Orissa 5278
screening 5278
**Mung beans** (*see Vigna radiata)*
***Muntingia***
*Phloeosporella muntingia*
India 7366
taxonomy 7366
***Musa***
banana bunchy top virus, gene banks 4659
cucumber mosaic cucumovirus, gene banks 4659
diseases, quarantine 1075
*Mycosphaerella fijiensis*
Africa 5435, 8644
breeding 5435, 8644-8645
Nigeria 8645
viruses, quarantine 1075
***Musa paradisiaca*** (*see* Bananas)
**Mushrooms** (*Agaricus bisporus*)
*Chrysosporium luteum*, resistance 4017
*Cladobotryum dendroides*
control 8838
physiology 8836, 8838
fungi
contaminants 8835
growing media 1750
nomenclature 630
spawn 8835
La France disease
diagnosis 628
Pennsylvania 7162
viruses 628-629, 7162
*Mycogone perniciosa*, control 5604
*Pseudomonas tolaasii*, resistance 4017
*Sporendonema purpurascens*, identification 1185
*Trichoderma viride*
physiology 8837
resistance 4017
*Verticillium fungicola*, resistance 4017
**Musk melons** (*see* Melons)
**Mustard**
*Alternaria brassicae*, antagonists 1281
*Plasmodiophora brassicae*
control 6234
varietal reactions 6234
West Bengal 6234
*Xanthomonas campestris* pv. *campestris*
amino acids 1003
enzymes 5316
proteins 1003
varietal reactions 1003, 5316
**Mustard oil**, control, *Glomerella cingulata*, mangoes 5449
**Myanmar**
chickpeas
diseases 2133
*Macrophomina phaseolina* 2141
*Phaseolus vulgaris*, *Macrophomina phaseolina* 2141
rice, *Xanthomonas oryzae* pv. *oryzae* 2749
soyabeans, *Macrophomina phaseolina* 2141
***Mycelium radicis***, *Picea abies*, soil pH 7945
**Myclobutanil**
activity, *Podosphaera leucotricha*, apples 2954
control
*Blumeriella jaapii*, cherries 8623
*Botryosphaeria dothidea*, apples 4613
cereals, seedborne fungi 8268
*Erysiphe cichoracearum*, tobacco 5506
*Eutypa lata*, grapes 2997
*Gloeodes pomigena*, apples 7732
*Nectria galligena*, apples 6148
*Schizothyrium pomi*, apples 7732
*Sphaerotheca pannosa*, peaches 4629
*Venturia inaequalis*, apples 2948
fungicide tolerance, *Venturia inaequalis* 1576, 7736
persistence, sour oranges 4674
**Myclozolin**
activity, *Ustilago zeae* 1239
control, *Sclerotium cepivorum*, onions 4545
***Mycoamaranthus auriorbis***
Queensland 707
taxonomy 707
***Mycocentrospora acerina***
carrots
biological control 411
Norway 2170
*Streptomyces griseoviridis*, hyperparasitism 4175
*Trichoderma*, antagonism 411
weeds, Norway 2170
***Mycogone perniciosa***, mushrooms, control 5604
***Mycoleptodiscus atromaculans***
*Chamaecyparis thyoides*
New Jersey 1174
taxonomy 1174
**Mycology**, books 4048, 7172
**Mycoplasma-like organisms** 2149
almonds 513
*Ammobium alatum* 4861
apples 3818, 6593, 7731, 8234
apricots 2232-2233, 7748
aubergines 1554, 4589, 6114, 7696
books 3456
cabbages 1955
*Callistephus chinensis* 8235
cassava 6065
*Catharanthus roseus* 1349-1350, 1612, 1953, 2596, 3855, 4264-4265, 5108, 5591, 6338, 8234
cherries 4622, 5407, 8622
chickpeas 2133
chrysanthemums 4862, 5569
citrus 500
coconuts 526, 1097, 3059-3063
cotton 2353
crops 1348
*Crotalaria saltiana* 4471
*Cuscuta campestris* 2596
*Cynodon dactylon* 5836
cytochemistry, enzymes 4262-4263
detection 213, 5106, 8235
electron microscopy 2565
faba beans 4471, 8431
*Fraxinus* 3141
fruit 1570, 6973
grapes 483, 1068, 2249, 2985, 3855-3856, 4646, 6175, 6956-6957
*Guizotia abyssinica* 7847
*Lagenaria siceraria* 5361
lettuces 6852
maize 1977
medicinal plants 7144
molecular genetics 214, 3458, 3634, 5109, 7416
reviews 1954
mulberries 5107
oil palms 6242
ornamental plants 1955, 2595
*Orobanche cernua* 7696
peaches 4626, 7754
pears 6930
*Physostegia virginiana* 4264
plants 3457, 8233
*Prunus* 1055, 5407
red currants 475
rice 2730, 4413, 5107
*Santalum album* 1749, 5539
sesame 1104, 5107
sugarcane 1641, 5107, 5836, 7039, 7850
sweet potatoes 8502
tomatoes 1348, 4572, 4576, 5323, 6094, 6856
trees 1354
*Trifolium* 6593
*Trifolium repens* 1474, 8234
vectors, reviews 2564
*Vigna radiata* 966
walnuts 1618
wheat 8272
*Ziziphus mauritiana* 1612
*Ziziphus sativa* 627
**Mycorrhizal fungi**
antagonism, *Pythium ultimum* 1256
carbohydrates 4973
China 6468

**Mycorrhizal fungi** *cont.*
classification 720
reviews 3330
control, Nematoda 711
culture 4117
ecology 721
ergosterol 7286
estimation 6496
extraction 7300
forests 1274
identification 6574
India 6498
infection 2490, 4973
inoculum 3333, 7287
interactions, reviews 1779
Jammu and Kashmir 3331
laboratory tests
aluminium 5707-5708
benomyl 7293
nocodazole 7293
pesticides 4124
pH 5707
mannitol 7292
mine spoil 5734
Nematoda 3324
Netherlands 1840
nutrient transport, reviews 6482
phosphorus 701, 3327
phylogeny 7301
production, vitamins 1846
soil 1839, 3335-3336, 3345, 3350, 4982-4983, 4991, 5735, 6490, 6495, 7303, 7307
soil conservation, reviews 4119
Switzerland 8133
taxonomy 6498, 7288
ultrastructure, reviews 5700
*Vigna parkeri* 4989
**Mycorrhizas**
*Abies concolor* 1844
*Abies grandis* 1844
*Acacia albida* 2527
*Acacia farnesiana* 4982
*Acacia nilotica* 2527
*Acanthocereus colombianus* 5724
*Afzelia africana* 2495
agriculture 3323
*Alnus acuminata* 2506
*Alnus crispa* 7285
*Alnus rubra* 3329
*Ammophila breviligulata* 726
*Anthyllis cytisoides* 2523, 6484
apples 460, 7302
*Arbutus menziesii* 6504
*Arbutus unedo* 4967
*Artemisia tridentata* 5725
*Aspalathus linearis* 4167
asparagus 8145, 8537
*Avena fatua* 4165
avocados 1273, 8137
barley 1856, 5727
*Betula alleghaniensis* 2493
*Betula pendula* 4133
*Brachypodium retusum* 2523
*Bromus inermis* 1268
*Bromus secalinus* 1268
*Bromus tectorum* 7308
*Caesalpinia eriostachys* 4152
*Calluna vulgaris* 1279
*Campomanesia coerulea* 2520
*Capsicum* 92, 717-718, 4144, 5736, 8585
carrots 1862
Caryophyllaceae 1267
cashews 8134
*Castanopsis* 4129
*Casuarina cunninghamiana* 7297
*Casuarina equisetifolia* 5541
*Cattleya* 7311
cereals 1850, 1959
chickpeas 98, 1864, 2508, 2529
classification, reviews 5715
coffee 2526, 7310
Coniferae 5702
*Cordia alliodora* 4152
cowpeas 98, 2529, 3351, 6500, 8135-8136, 8139
crop production, reviews 4154
crops 90, 1959, 2511, 4171, 5728, 6467, 6606
cucumbers 450, 5733
*Cypripedium candidum* 1277
**Mycorrhizas** *cont.*
*Dactylorhiza incarnata* 1278
*Dactylorhiza majalis* 1276
*Dioon edule* 4987
dunes 1858
dynamics 1837
ecology 4293
reviews 1838, 4121
*Eleusine coracana* 4994
*Elymus repens* 4170
environmental factors, reviews 4155
*Equisetum* 6499
Ericaceae 1280, 1867
*Eucalyptus* 1259, 1269, 1843, 2501
*Eucalyptus camaldulensis* 93
*Eucalyptus diversicola* 4974
*Eucalyptus dumosa* 696
*Eucalyptus globulus* 4973-4974, 5703, 7287
*Eucalyptus grandis* 7282
*Eucalyptus viminalis* 4116
evolution 1837
*Festuca arundinacea* 3348, 8146
*Festuca ovina* 6494
forest trees 4961-4962, 5716, 6478
forests 2494, 4123, 6466
fruit trees 1270
*Gliricidia sepium* 4985
*Glomus mosseae* 5732
Gramineae 1266, 2515, 3343
grapes 3862
grasses 4163
grasslands 1261, 4162, 8143-8144
groundnuts 5737
*Gunnera petaloidea* 725
Hawaii 7279
hazelnuts 6479
*Hedysarum confertum* 1851
*Hedysarum spinosissimum* 1851
*Hevea* 5701
horticultural crops 7304
*Ipomoea wolcottiana* 4152
*Juniperus monosperma* 1849
jute 4145
kiwifruits 1262, 1859-1860
kumquats 4141
landfills 3328
*Larix leptolepis* 6481
leeks 3339, 4159, 4169
Leguminosae 1841, 1847, 1956, 2524, 8141
lettuces 1264
*Leucaena esculenta* 3344
*Leucaena leucocephala* 94, 2522, 4168, 4977-4980, 6493
*Libocedrus chilensis* 4998
*Lithocarpus* 4129
liverworts 1866-1867
*Lolium perenne* 3352, 7306
*Lotus corniculatus* 2528
lucerne 2518, 2528
*Lycopodium cernuum* 728
maize 95, 1271-1272, 1853, 2503-2504, 2509, 2513, 2517, 4146, 4157-4158, 4161, 4990
mangoes 1273
*Melaleuca quinquenervia* 7297
mined land 3337
morphology, reviews 5715
Myrtaceae 1841
*Nicotiana sylvestris* 4772
nomenclature 5714
nutrient cycling 2488
onions 2513, 5729
Orchidaceae 2530
*Otholobium hirtum* 4167
*Pachycereus pecten-aboriginum* 7309
*Panicum amarum* 4149
*Panicum virgatum* 1268
pastures 97, 1260
pawpaws 1273
peas 2519
*Pennisetum americanum* 2529, 3348
*Penstemon haydenii* 2510
*Phaseolus vulgaris* 2503, 3340, 5723
Philippines 7280
phosphorus 5717
*Picea abies* 1166, 2497, 2499, 3332, 4135, 4137, 4964, 4966, 5705-5706, 5709, 7292
*Picea mariana* 2493, 8123, 8126
**Mycorrhizas** *cont.*
*Picea sitchensis* 4128, 6481
pigeon peas 2529, 4150, 4975, 4984, 6483
Pinaceae 5726
*Pinus* 2501, 6469, 8130
*Pinus banksiana* 2492, 4965, 6470, 8123, 8126
*Pinus caribaea* 3325
*Pinus cembra* 5704
*Pinus contorta* 1844, 4968
*Pinus halepensis* 696, 1858, 4138
*Pinus nigra* 696, 4972, 5711
*Pinus patula* 6475-6476, 7290
*Pinus pinaster* 710, 2496, 4963, 4965
*Pinus pinea* 91, 8125
*Pinus radiata* 2502, 6473
*Pinus resinosa* 6474
*Pinus sylvestris* 700, 704, 2498, 3326, 4122, 4125, 4972, 5710, 6471, 6480, 7281, 8124
*Pinus taeda* 698, 705, 4126-4127, 6477, 7291
*Piper nigrum* 3338
*Pithecellobium mangense* 4152
plant diseases, reviews 4997
plant nutrition 1845
*Plantago lanceolata* 3352
plants 7299
*Platanus acerifolia* 4159
plums 7302
*Poncirus trifoliata* 4142
*Populus* 2500
*Populus balsamifera* 7284-7285
*Populus deltoides* 4976
potatoes 3334, 4148
*Pseudotsuga menziesii* 89, 695, 699, 1844, 3329, 4968, 5707, 7294
Pteridophyta 1253
*Quercus* 1255, 2491, 2501, 4129
*Quercus costaricensis* 7289
*Quercus myrsinaefolia* 4130-4131
*Quercus rubra* 697
research, reviews 4212
reviews 2489, 4118
*Rhododendron maximum* 1254
rice 1852, 2507, 6497
roses 3353
rough lemons 4160
rye 1856
*Salix* 8133
*Salix babylonica* 7297
*Salix herbacea* 8129
savannas 714
*Schizachyrium scoparium* 1855
*Selenicereus magalanthus* 5724
*Sesbania grandiflora* 4986
*Sesbania sesban* 4168
*Silene nivea* 1268
*Silene noctiflora* 1268
*Sitanion hystrix* 7308
soil 715, 726, 1265, 4156, 4981, 5720, 5738, 6486, 7296, 8145-8146
soil biology, reviews 4153
Solanaceae 1267
sorghum 716, 2513, 6486
sour oranges 2516, 4160
soyabeans 96, 716, 1272, 1853, 1863, 3351, 6486, 8138
*Spiranthes sinensis* var. *amoena* 6501
spoil heap soils 1857
*Stipa pulchra* 4993
strawberries 3341
sugarbeet 5727
sunflowers 4157-4158
sweet potatoes 7298
*Tagetes* 2513
*Thuja plicata* 4143
*Tilia* 2500
tobacco 711, 723, 8140, 8146
tomatoes 438, 1016, 5730
trees 1842, 1848, 2505
*Trifolium alexandrinum* 6485
*Trifolium pratense* 722, 4147, 5722
*Trifolium repens* 2514, 4170, 4992, 6491
*Trifolium subterraneum* 5718, 5738, 8142
*Trifolium vesiculosum* 4164
*Uniola paniculata* 4149, 6487
*Vaccinium* 4172
*Vaccinium myrtillus* 1279
*Vigna mungo* 1275

**Mycorrhizas** *cont.*
*Vigna radiata* 95, 98, 8134
*Vulpia ciliata* 5719
*Vulpia ciliata* subsp. *ambigua* 4995
*Welwitschia mirabilis* 6489
wheat 278, 1854, 1856, 2525, 2529, 4988, 5727
wild plants 693, 712-713
worm casts 5721
***Mycosphaerella***
groundnuts
Andhra Pradesh 1637
control 1637
Karnataka 1637
***Mycosphaerella arachidis***
*Arachis*, genetic resources 3067
groundnuts
biological control 8694
breeding 3902
control 529, 3073
genetic resources 3067
irrigation 7030
life tables 7035
Meghalaya 4713
North Carolina 8687
reviews 6250
screening 8687
Sierra Leone 529
sodium 7030
survival 7034
varietal reactions 4713, 7842, 8682
Virginia 8687
yield losses 529
soil, survival 7034
***Mycosphaerella bellula*, *Protea repens***, South Africa 7359
***Mycosphaerella berkeleyi***
*Arachis*, genetic resources 3067
*Dicyma pulvinata*, hyperparasitism 1638
groundnuts
Alabama 8692
breeding 7839
control 529, 3070, 3072-3073, 7031, 7841
forecasting 8692
genetic resources 3067
Georgia 3070
hyperparasites 1638
intercropping 7830
life tables 7035
models 8692
physiology 4716
reviews 6250
screening 5477
Sierra Leone 529
survival 7034
Swaziland 5477
toxins 4716
varietal reactions 7839
Virginia 1638
yield losses 529
soil, survival 7034
***Mycosphaerella brassicicola***
Brussels sprouts
control 8515
UK 8515
cabbages, testing 7665
rape
control 2297
UK 2297
***Mycosphaerella capsellae***
rape
epidemiology 8672
UK 8672
***Mycosphaerella cruenta***
*Vigna mungo*
control 3708, 5281
Himachal Pradesh 3708
*Vigna radiata*
control 7629
Uttar Pradesh 7629
***Mycosphaerella cussonia*, *Cussonia thyrsiflora***, South Africa 7359
***Mycosphaerella dearnessii***
culture media 5012
*Pinus cubensis*
Cuba 7934
histopathology 7934
***Mycosphaerella fijiensis***
bananas
Africa 5435
***Mycosphaerella fijiensis*** *cont.*
bananas *cont.*
breeding 5435, 8645
detection 6978
Kenya 4660
Malawi 493
Mexico 6976
Nigeria 8645
Tanzania 3867
Uganda 6201
varietal reactions 493, 3867
yield losses 6976
*Musa*
Africa 5435, 8644
breeding 5435, 8644-8645
Nigeria 8645
***Mycosphaerella fijiensis* var. *difformis***, bananas, Cuba 1077
***Mycosphaerella fragariae***
strawberries
flavanols 2931
histochemistry 2931
***Mycosphaerella graminicola***
tritordeum, breeding 3543
wheat
Argentina 4346
breeding 3543, 4306, 7474
control 268, 2016, 4345, 6641, 7454, 7457, 7470, 7472-7473, 8285-8287
detection 7476
DNA fingerprinting 6670
environmental factors 2676
enzymes 2674
epidemiology 7472
Ethiopia 2014
genetics 1397
Germany 7457, 7472
immunodiagnosis 8310
isolates 4346, 6670
Mexico 6641
models 2676
Netherlands 2016
rain 7470
rotations 269, 3472
Saskatchewan 269, 3472
selection 2673
Siberia 4345
Sweden 7470
tillage 3472
Uganda 8273
UK 7447, 8286-8287
USSR 6659
varietal reactions 269, 2014, 4340, 4346, 7454, 8273
yield losses 7454
***Mycosphaerella herbarum*, *Lantana camara***, India 3403
***Mycosphaerella linicola***
flax, genetics 7077
linseed, UK 8673
***Mycosphaerella medicaginis***, Ukraine 3395
***Mycosphaerella melonis*** *(see Didymella bryoniae)*
***Mycosphaerella mori***
mulberries
Himachal Pradesh 6952
Uttar Pradesh 6952
***Mycosphaerella musae***
bananas
control 6199
models 6199
New South Wales 6199
***Mycosphaerella musicola***
bananas
Caribbean 3008
control 3008, 3868, 6199-6200
Cuba 3008, 3868
detection 6978
forecasting 3008
Malawi 493
models 6199
New South Wales 6199
varietal reactions 493, 3866
Venezuela 6200
***Mycosphaerella nawae***, toxins 3883
***Mycosphaerella parkii***
*Eucalyptus grandis*
Brazil 5535
taxonomy 5535
***Mycosphaerella pini***
*Pinus muricata*
New South Wales 6306
susceptibility 6306
*Pinus radiata*
breeding 5551
control 7932
New South Wales 5551, 6306
New Zealand 7932
Spain 596
susceptibility 6306
***Mycosphaerella pinodes***
peas
Belgium 7616
control 7615-7616
elicitors 8456
enzymes 951, 8455
genetics 2801
host parasite relationships 951, 8456
Netherlands 6792
reviews 6794
rotations 3472
Saskatchewan 3472
tillage 3472
varietal reactions 8453
satsumas, control 6987
*Vigna umbellata*, Sikkim 8470
***Mycosphaerella pomi***
apples
control 3819
USA 3819
***Mycosphaerella populorum***
*Populus*
ascospores 585
Iowa 585
*Populus balsamifera*
screening 7917
USA 7917
*Populus tremuloides*, Mexico 7100
***Mycosphaerella superflua***, Ukraine 3395
***Mycosphaerella zeae-maydis***, maize, genetics 2711
**Mycostop**, control, *Fusarium oxysporum* f.sp. *gerberae*, *Gerbera* 614
**Mycotoxins**
*Acremonium coenophialum* 343, 1467, 5980
*Acremonium lolii* 5232, 8407
*Alternaria* 3894, 3954, 6537
*Alternaria alternata* 110, 436, 2294, 2540, 4204, 5338, 6363, 6867, 6949, 7659, 7777, 7797, 7999, 8559, 8612, 8618-8619, 8628
*Alternaria brassicae* 6231
*Alternaria chrysanthemi* 1885
*Alternaria helianthi* 4706, 7819
*Alternaria porri* 3371
*Alternaria solani* 7646
analysis 149-152
*Ascochyta hyalospora* 2426
*Ascochyta rabiei* 4495
*Aspergillus* 2629, 4173
*Aspergillus clavatus* 7656
*Aspergillus flavus* 889, 1466, 3907, 3947, 4280, 5472, 5594, 6246, 6704, 7028, 7033, 7342, 7507, 7516, 7836, 8168, 8352, 8354
*Aspergillus niger* 7033, 7836
*Aspergillus parasiticus* 3066, 3604, 4271, 6246, 7441, 8352
*Aureobasidium pullulans* 7344
*Bipolaris sacchari* 539
*Botrytis cinerea* 5457, 6185
*Calonectria quinqueseptata* 8770
*Ceratocystis fimbriata* 7108
*Ceratocystis ulmi* 3142, 4814
*Cercospora* 5191, 5739
*Cercospora beticola* 7860
*Cercospora kikuchii* 1484, 8428
*Cercospora sojina* 365
*Claviceps purpurea* 929
*Cochliobolus carbonum* 2064, 4400
*Cochliobolus heterostrophus* 3599, 5919, 6629
*Cochliobolus miyabeanus* 4429, 7549
*Cochliobolus sativus* 2019, 2700, 5180, 7438
*Cochliobolus spicifer* 5879
*Cochliobolus victoriae* 5906
*Curvularia* 6537, 6629
*Deuterophoma tracheiphila* 6210, 6991

**Mycotoxins** *cont.*
fungi 102, 6507
*Fusarium* 109, 2065, 3373, 3499, 4190, 4348, 4407, 5769, 6671, 7859
*Fusarium camptoceras* 8399
*Fusarium culmorum* 4352, 5192, 5884, 8319
*Fusarium oxysporum* 4897, 7581
*Fusarium oxysporum* f.sp. *ciceris* 3701
*Fusarium oxysporum* f.sp. *cucumerinum* 2213
*Fusarium oxysporum* f.sp. *lycopersici* 2194
*Fusarium roseum* 6629
*Gibberella avenacea* 4896
*Gibberella fujikuroi* 2065, 3372, 3602, 4186, 4897, 5189, 5338, 6363, 8156
*Gibberella zeae* 855-856, 2686, 5167-5169, 6639, 6671, 8319-8320
*Glomerella cingulata* 3198
Gramineae 8405-8406
*Macrophomina phaseolina* 5023, 6024
maize 6699
*Marasmiellus inoderma* 6629
*Microdochium tabacinum* 6629
*Mycosphaerella berkeleyi* 4716
*Mycosphaerella nawae* 3883
*Nectria rigidiuscula* 6014
*Penicillium* 4173, 6537
*Penicillium citrinum* 5127
*Penicillium griseofulvum* 5194
*Penicillium verrucosum* var. *cyclopium* 7656
*Pennisetum americanum* 4407
*Periconia circinata* 3621-3622
*Phoma* 2185
*Phoma exigua* var. *heteromorpha* 5025
*Phoma sorghina* 1766
*Phomopsis* 1757
*Phomopsis amygdali* 5318, 8253
*Phytophthora infestans* 6821
*Pyrenophora teres* 2040
rice 7536
*Sclerospora graminicola* 7523
*Seiridium cupressi* 1173
*Septoria glycines* 8429
*Setosphaeria turcica* 6629
*Stagonospora apocyni* 635
*Stemphylium* 3954
*Tubakia dryina* 2386
*Ulocladium* 3954
*Verticillium dahliae* 2161, 3953, 7892, 8742
wheat 1988
***Mycovellosiella*,** taxonomy 5042
***Mycovellosiella cajani***
pigeon peas
Kenya 8464
screening 8464
Sikkim 3707
***Mycovellosiella cucurbiticola*,** *Sechium edule*, storage 3794
***Mycovellosiella eupatorii-odorati***
*Eupatorium trapezoideum*
biological control 2428
growth 7991
physiology 7991
***Mycovellosiella koepkei***
sugarcane
enzymes 4720
varietal reactions 4720
***Mycovellosiella passaloroides***
*Amorpha fruticosa*
China 5787
taxonomy 5787
***Mycovellosiella phaseoli*,** *Vigna umbellata*, Sikkim 8470
***Mycovellosiella pithecellobii*,** West Bengal 754
***Mycovellosiella sacchari***
sugarcane
taxonomy 759
West Bengal 759
***Myndus taffini*,** transmission, coconut foliar decay virus 2319
***Myriangium rosicola***
roses
Maharashtra 5563
taxonomy 5563
***Myrica gale*,** plant extracts, antifungal agents 1833
***Myrica rubra***
*Pestalotiopsis stellata*
China 1308
taxonomy 1308
***Myricaria germanica*, *Puccinia thuemeniana*,** Iran 6550
***Myrothecium groenlandicum***
*Betula nana*
Greenland 7907
taxonomy 7907
***Myrothecium leucotrichum*,** laboratory tests, plant extracts 3286
***Myrothecium roridum***
cotton
control 4779
hosts 4778
*Dalbergia sissoo*
Haryana 4813
Uttar Pradesh 4813
guar, crop growth stage 1500
melons, genetics 7712
mulberries
Himachal Pradesh 6952
Uttar Pradesh 6952
pawpaws, susceptibility 4778
*Populus*, Uttar Pradesh 4809
sesame, seeds 1106
soyabeans
fertilizers 7597
induced resistance 6770-6771
phytoalexins 6770
***Myrothecium verrucaria***
activity, *Sclerotinia sclerotiorum*, *Phaseolus vulgaris* 1494
almonds, India 3403
*Capsicum*
control 1558
seeds 1558
Uttar Pradesh 1558
control, *Pyrenophora teres*, barley 6685
*Euphorbia esula*, Nei Menggu 5611
hyperparasitism, *Puccinia arachidis* 6252
laboratory tests, heavy metals 1871
**Myrtaceae,** mycorrhizas 1841
***Myrtus communis*,** plant extracts, antifungal agents 3290
***Myxococcus virescens*,** production, antibiotics 4960
***Myxococcus xanthus*,** production, antibiotics 4959
***Myzus nicotianae*,** transmission, tobacco vein mottling potyvirus 8727
***Myzus persicae***
transmission
beet mosaic potyvirus 5800
beet western yellows luteovirus 1116, 5486
beet yellows closterovirus 1116, 8706-8707
cauliflower mosaic caulimovirus 5099
cucumber mosaic cucumovirus 4593, 5050
papaya ringspot potyvirus 4684, 7002
papaya ringspot (type W) potyvirus 8204
pepper vein banding virus 5344
potato aucuba mosaic potexvirus 8228
potato leaf roll luteovirus 2151, 5287, 8204
potato X potexvirus 8228
potato Y potyvirus 563, 3937, 4573, 5800, 6044, 6120
potato Ypotyvirus 562
safflower mosaic virus 7821
sugarbeet, viruses 8705
tomato aspermy cucumovirus 5050, 6860
turnip mosaic potyvirus 4552
zucchini yellow mosaic potyvirus 6589, 7706
**NAA,** control, pawpaws, storage decay 3037
**Nalfloc NAL 1115,** soil treatment 3920
*Narcissus*
diseases, certification 7275
*Fusarium oxysporum* f.sp. *narcissi*, screening 1180
**Narcissus mosaic potexvirus,** coat proteins 797
***Narcissus tazetta* var. *chinensis*,** tobacco rattle tobravirus, Fujian 7967
***Nattrassia mangiferae***
mangoes
control 7801
South Africa 7801
***Nauclea excelsa***
*Stenella naucleae*
taxonomy 758
West Bengal 758
**Nectarines** (*Prunus persica*)
diseases
control 7753
USA 7753
*Monilinia fructicola*
control 7755
forecasting 7755
New Zealand 7755
*Monilinia laxa*
histopathology 4628
infection 4628
plum pox potyvirus, varietal reactions 3844
*Rhizopus stolonifer*
histopathology 4628
infection 4628
*Taphrina deformans*
Argentina 1060
control 469, 1060
tomato ringspot nepovirus
detection 4625, 5411
Nematoda 3814
USA 3814
***Nectria***
shade trees, control 3129
trees
control 583
hosts 583
symptoms 583
***Nectria camelliae*,** IMI descriptions 7357
***Nectria cinnabarina*,** apples, Malawi 6147
***Nectria coccinea***
*Fagus sylvatica*
Germany 8773
insects 8773
***Nectria ditissima***
*Fagus sylvatica*
cultural methods 1700
Switzerland 1700
***Nectria flammea*,** soil, spore germination 5032
***Nectria fuckeliana*,** interactions, *Heterobasidion annosum*, *Picea abies* 603
***Nectria galligena***
apples
antagonists 1047
biological control 1047
control 2958, 6148
environmental factors 4612
postharvest decay 1047
temperature 2959
UK 2958, 6148
varietal reactions 2959
pears, Chile 6152
***Nectria haematococca***
*Aphanocladium album*, antagonism 4178
biochemistry, lipid metabolism 5018
chickpeas
molecular genetics 6020-6021
phytoalexins 215, 6020-6021
virulence 6021
*Doritaenopsis*
Japan 8818
pathogenicity 8818
lucerne, phytoalexins 4456
molecular genetics, genetic transformation 7325
peas, phytoalexins 215
perithecia 5018
*Phalaenopsis*
Japan 8818
pathogenicity 8818
taxonomy 768
***Nectria haematococca* var. *cucurbitae***
fungicide tolerance 5758
mutants 5758
***Nectria mauritiicola*,** IMI distribution maps 3389
***Nectria radicicola***
*Abies*, physiology 1162
apricots
cold storage 6141
Ontario 6141

***Nectria radicicola*** *cont.*
Coniferae, Sweden 1161
*Panax pseudoginseng*
biological control 5592
soil fungistasis 7976
peaches
cold storage 6141
Ontario 6141
pears
cold storage 6141
Ontario 6141
peas, Netherlands 6792
*Picea*, physiology 1162
*Picea abies*, Germany 7120
*Pinus*
biological control 601
physiology 1162
*Pinus sylvestris*
biochemistry 4840
host parasite relationships 4840
spore germination, heavy metals 5015
***Nectria rigidiuscula***
*Bixa orellana*, Venezuela 3490
cocoa
control 3093
Venezuela 3093
*Melicoccus bijugatus*, Venezuela 3490
peas, toxins 6014
***Nectria rugulosa,*** *Macadamia*, decline 7813-7814
**Neem extracts,** control, *Rhizoctonia solani*, fenugreek 6350
***Nelumbo nucifera,*** *Fusarium oxysporum* f.sp. *nelumbicola*, Jiangxi 1742
**Nemacur** (*see* Fenamiphos)
***Nematanthus wettsteinii,*** viroids, characteristics 5568
**Nematicides,** antifungal properties 1244
**Nematoda**
interactions
apples, replant disease 2938
bacteria 3228
fungi 3478-3479
*Fusarium*, Coniferae 3147
*Fusarium oxysporum*
bananas 1598
tobacco 7886
*Fusarium oxysporum* f.sp. *vasinfectum*, cotton 7891
groundnuts, pot rot 1101
mycorrhizal fungi 3324
*Phanerochaete velutina* 1882
plant pathogens 3473-3476, 4044
*Sclerotinia homoeocarpa*, *Poa pratensis* 1724
*Stereum hirsutum* 1882
*Verticillium dahliae*, rape 1089
transmission
grapes, viruses 8632
plant pathogens 3477
tobacco rattle tobravirus 1950, 8229
viruses 3431
***Neoaliturus***
transmission
mycoplasma-like organisms 2564
viruses 2564
***Neoaliturus haematoceps,*** transmission, mycoplasma-like organisms 1104
***Neocosmospora vasinfecta***
faba beans
Hungary 8435
seeds 8435
guar, India 4506
**Neophytomycin**
control
*Rhizoctonia solani*, rice 5945
*Xanthomonas oryzae* pv. *oryzae*, rice 5945
*Xanthomonas oryzae* pv. *oryzicola*, rice 5945
***Neosilba,*** epidemiology, *Capsicum*, bacteria 442
**Nepal**
*Alnus nepalensis*
*Melampsoridium hiratsukanum* 8778
*Passalora alni* 8778
*Amaranthus*, diseases 5976
chickpeas, *Botrytis cinerea* 5276
crops, diseases 217
*Dalbergia sissoo*
*Maravalia achroa* 5545
**Nepal** *cont.*
*Dalbergia sissoo cont.*
*Uredo sissoo* 5545
forest trees, diseases 217
marrows, zucchini yellow mosaic potyvirus 1561
okras, okra (bhendi) yellow vein mosaic bigeminivirus 6905
pigeon peas, pigeon pea sterility mosaic virus 2810
***Nephotettix,*** transmission, rice tungro virus 6713
***Nephotettix nigropictus,*** transmission, rice tungro virus 6714
***Nephotettix virescens***
transmission
rice, yellow dwarf 323
rice tungro bacilliform badnavirus 4411, 8368
rice tungro spherical ribotungrovirus 4411
rice tungro virus 3636, 6714, 8365
***Nephrolepis biserrata,*** *Alternaria tenuissima*, Karnataka 1186
***Nerium oleander***
*Phoma exigua* var. *heteromorpha*, Italy 2405
plant extracts, antiviral agents 7057
*Pseudomonas syringae* pv. *savastanoi*
IAA 6410
strains 6410
**Netherlands**
asparagus
*Fusarium oxysporum* 6854
*Fusarium oxysporum* f.sp. *asparagi* 432
replant disease 432
biological control agents, registration 70
cereals, diseases 236
chicory, pesticides 7668
crops, diseases 5793
cucumbers, *Sphaerotheca fuliginea* 5370
*Genea klotzschii* 1861
*Impatiens*
impatiens necrotic spot virus 1178
tomato spotted wilt tospovirus 1178
*Limonium vulgare*, *Uromyces limonii* 2420
mycorrhizal fungi 1840
peas, root rots 6792-6793
pesticides
databases 5663
legislation 8066
*Pinus nigra*, *Diplodia pinea* 7113
*Prunus serotina*, *Chondrostereum purpureum* 5618, 8849
sugarbeet, beet yellows closterovirus 8707
wheat
diseases 3520
*Leptosphaeria nodorum* 2016
*Mycosphaerella graminicola* 2016
***Neurospora crassa***
laboratory tests
benomyl 6442
diethofencarb 3294
molecular genetics, fungicide tolerance 6444
**New Zealand**
apples, *Venturia inaequalis* 7736
asparagus
decline 430
replant disease 430
avocados, postharvest decay 512, 8662
*Camellia*, viruses 8806
carnations, diseases 5567
cereals, *Fusarium* 3499
faba beans, viruses 8423
forest trees, fungi 5528
fungi 7367
herbaria 761
grapes, *Uncinula necator* 7783
grasses, mycotoxins 8397
hops
arabis mosaic nepovirus 4887
viruses 4886
kiwifruits
decline 491
*Sclerotinia sclerotiorum* 8637
lentils, viruses 8423
*Leptinella dioica*, *Rhizoctonia* 5237
**New Zealand** *cont.*
nectarines, *Monilinia fructicola* 7755
pastures, *Fusarium* 3499
peaches, *Monilinia fructicola* 7755
pears, diseases 7743
peas, viruses 8423
*Phaseolus vulgaris*, viruses 8423
*Pinus radiata*, *Mycosphaerella pini* 7932
*Salix*, *Xanthomonas populi* 7101
small fruits, diseases 472
stone fruits, *Monilinia fructicola* 3835, 7747
*Trifolium pratense*, *Rhizoctonia* 5237
wheat, *Puccinia striiformis* 5147
**Nickel,** activity, *Corticium rolfsii*, barley 289
***Nicotiana***
tobacco mosaic tobamovirus, pathogenesis-related proteins 7877
viruses, pathogenesis-related proteins 2344
***Nicotiana alata,*** tomato spotted wilt tospovirus, host parasite relationships 8723
***Nicotiana benthamiana***
cymbidium ringspot tombusvirus
coat proteins 1666
genetic transformation 4241
host parasite relationships 1666
movement 1666
grapevine stem pitting associated closterovirus, DNA probes 485
impatiens necrotic spot virus
histopathology 8224
serology 8224
temperature 8224
pea early browning tobravirus, genetic transformation 6585
plum pox potyvirus
coat proteins 3434, 3938
genetic transformation 1327, 3434, 3938, 6589
induced resistance 1327
transmission 6589
tomato golden mosaic bigeminivirus, host parasite relationships 2583
tomato yellow leaf curl bigeminivirus, molecular genetics 434
vanilla necrosis potyvirus, induced resistance 4879
watermelon mosaic 2 potyvirus
genetic transformation 212
induced resistance 212
zucchini yellow mosaic potyvirus
genetic transformation 212, 6589
induced resistance 212
transmission 6589
***Nicotiana bigelovii***
cucumber mosaic cucumovirus
genetics 5812
satellite RNA 5812
symptoms 5812
***Nicotiana clevelandii***
cucumber mosaic cucumovirus
genetics 5812
satellite RNA 5812
symptoms 5812
cymbidium ringspot tombusvirus
coat proteins 1666
host parasite relationships 1666
movement 1666
plum pox potyvirus
coat proteins 3434
genetic transformation 1327, 3434
induced resistance 1327
potato X potexvirus, genetic transformation 5498
tobacco rattle tobravirus, movement 2578
***Nicotiana glauca,*** *Agrobacterium tumefaciens*, genetic transformation 5646
***Nicotiana glutinosa,*** cucumber mosaic cucumovirus, herbicides 3940
***Nicotiana rustica*** (*see* Tobacco)
***Nicotiana sanderae,*** tomato spotted wilt tospovirus, host parasite relationships 8723
***Nicotiana sylvestris***
*Glomus mosseae*
mycorrhizas
chitinase 4772
infection 4772

***Nicotiana sylvestris*** *cont.*
*Rhizoctonia solani*
chitinase 4772
genetic transformation 4772
host parasite relationships 4772
***Nicotiana tabacum*** (*see* Tobacco)
**Niger,** plant protection 8257
**Nigeria**
bananas, *Mycosphaerella fijiensis* 8645
*Capsicum,* leaf curl 5342
*Clitoria ternatea,* cowpea chlorotic mottle bromovirus 2587
crops, diseases 1960, 2601
*Desmodium heterocarpon,* cowpea chlorotic mottle bromovirus 2587
*Ipomoea setosa,* viruses 415
*Mucuna pruriens, Macrophomina phaseolina* 2775
*Musa, Mycosphaerella fijiensis* 8645
*Pennisetum americanum*
*Fusarium* 5038
*Tolyposporium penicillariae* 2071
*Raphia, Chalara paradoxa* 4784
rice
diseases 5203
*Magnaporthe grisea* 4420
*Rottboellia cochinchinensis,* rottboellia yellow mottle virus 633
soil, *Fusarium* 5038
sorghum, *Fusarium* 5038
soyabeans, *Pyrenochaeta glycines* 6769
sugarcane
*Glomerella tucumanensis* 5482
*Ustilago scitaminea* 6257
sweet potatoes, viruses 415
*Terminalia ivorensis*
*Gibberella fujikuroi* 4819
*Humicola* 4819
***Nigrospora***
dates, biochemistry 7004
rice, Honshu 5210
**Nikamizolon,** seed treatment, cotton 3110
***Nilaparvata lugens,*** interactions, *Rhizoctonia solani,* rice 7552
***Nimbya gomphrenae,*** IMI distribution maps 3389
***Nipa fruticans,*** *Khuskia oryzae,* West Bengal 8843
**Nitrogen**
activity, wheat, diseases 2647
control, pears, storage decay 5396
**Nitrothal-isopropyl**
fungicide residues
fruit 2451
vegetables 2451
**Niue**
*Vanilla fragrans,* viruses 4011
*Vanilla tahitensis,* viruses 4011
**Nocodazole,** activity, mycorrhizal fungi 7293
***Nodulisporium***
*Sequoia sempervirens*
endophytes 7107
USA 7107
**Nomenclature,** mycorrhizas 5714
**North America**
geminiviruses, evolution 1940
Phaeosphaeriaceae 765
raspberries, *Phytophthora fragariae* var. *rubi* 7763
strawberries, *Phytophthora fragariae* 7769
*Vaccinium, Protoventuria barriae* 4637
**Norway**
apples, *Venturia inaequalis* 2947, 2953
barley, diseases 2027
carrots, *Mycocentrospora acerina* 2170
*Equisetum,* mycorrhizas 6499
*Picea abies*
fungi 3159
*Graphium* 7118
*Ophiostoma* 7118
*Pinus,* diseases 3152
plant diseases, forecasting 132
raspberries, *Phytophthora* 473
weeds, *Mycocentrospora acerina* 2170
wild plants, mycorrhizas 693
**Norway spruce** (*see Picea abies)*
**Nuarimol**
activity, *Gaeumannomyces graminis* var. *tritici,* wheat 8313
control, wheat, diseases 3518
**Nufilm,** control, *Botrytis cinerea, Ruscus hypoglossum* 3995
**Nut crops,** disorders, books 5628
**Nutrient deficiencies,** activity, *Gremmeniella abietina, Pinus sylvestris* 1165
***Nyctanthes arbor-tristis,*** plant extracts, antifungal agents 904
**Oaks** (*see Quercus)*
**Oat golden stripe furovirus**
oats
transmission 2621
UK 2621
**Oat mosaic bymovirus**
oats
genetics 3587
transmission 2621
UK 2621
**Oats** (*Avena sativa*)
barley yellow dwarf luteovirus
Arkansas 5133
breeding 241
genetics 241
immunodiagnosis 1371, 1373
mixed infections 8336
Pennsylvania 8336
purification 1371
selection 4372, 8337
strains 2703
transmission 1372, 2703
USSR 243
yield losses 8336
brome mosaic bromovirus
Siberia 4373
transmission 4373
*Cochliobolus sativus*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
*Cochliobolus victoriae,* toxins 5906
diseases
breeding 234
induced mutations 234
Latvia 826
*Erysiphe graminis*
host parasite relationships 5181, 6630
photosynthesis 2705
respiration 2705
varietal reactions 2705
flame chlorosis, cytology 242
*Fusarium*
biological control 1379
Brazil 1379
Germany 4375
plant residues 1379
seed germination 5852
seeds 4375
varietal reactions 5852
*Gaeumannomyces graminis*
isolates 822
nucleotide sequences 822
*Gibberella*
Germany 4375
seeds 4375
*Gibberella zeae*
biological control 1379
Brazil 1379
Parana 5846
plant residues 1379
Rio Grande do Sul 5846
rotations 5846
maize dwarf mosaic potyvirus, South Africa 4446
*Microdochium bolleyi*
roots 5131
tropisms 5131
oat golden stripe furovirus
transmission 2621
UK 2621
oat mosaic bymovirus
genetics 3587
transmission 2621
UK 2621
phytoalexins, elicitors 6689
*Puccinia coronata*
biological control 4305
Canada 5904, 8338
control 3588
genetics 5903
genotype mixtures 7444
hyperparasites 6632
Kazakhstan 3588
**Oats** *cont.*
*Puccinia coronata cont.*
phytoalexins 6690
population dynamics 8338
resistance 294
varietal reactions 294
virulence 5904, 8338
*Puccinia graminis*
Canada 5905
genetics 873
molecular genetics 4374
races 4302-4303, 5905
USA 4302-4303
*Pyrenophora avenae*
antioxidants 2704
host parasite relationships 2704
mixed infections 8336
Parana 5846
Pennsylvania 8336
Rio Grande do Sul 5846
rotations 5846
yield losses 8336
*Sclerophthora macrospora,* Indian Punjab 4301
*Ustilago segetum,* host specificity 5907
*Ustilago segetum* var. *avenae*
host specificity 5907
varietal reactions 3589, 5130
***Ocimum basilicum,*** *Fusarium oxysporum,* California 7154
***Ocimum kilimandscharicum,*** plant extracts, antifungal agents 2481
***Ocimum sanctum***
plant extracts, antifungal agents 904, 5694
plant oils, antifungal agents 8119
***Ocotea bullata***
*Phytophthora cinnamomi*
environmental factors 1702
flooding 1157
South Africa 1702
**Odontoglossum ringspot tobamovirus**
*Cattleya,* Poland 4874
*Cymbidium,* elimination 7971
*Dendrobium,* elimination 622
*Mokara,* elimination 8817
*Oncidium flexuosum*
hosts 5587
Poland 5587
Orchidaceae, Hawaii 7142
*Vanilla,* Pacific Islands 4011
***Oebalus pugnax,*** transmission, rice, fungi 5954
***Oidiopsis thryallidis***
*Thryallis glauca*
Maharashtra 7365
taxonomy 7365
***Oidium***
forest trees
Chile 7085
cultural methods 7085
sesame, control 8696
tomatoes
control 6107
Mexico 6107
*Vigna umbellata,* Sikkim 8470
***Oidium anacardii***
cashews
control 4036
Malawi 4036
Tanzania 1624
***Oidium begoniae,*** *Begonia,* plant extracts 7432
***Oidium calanchoeae,*** *Kalanchoë,* Italy 6348
***Oidium erysiphoides***
*Ziziphus mauritiana*
Andhra Pradesh 4685
control 4685
***Oidium heveae***
*Hevea brasiliensis*
control 1144
Malaysia 6285
Sri Lanka 578
symptoms 1144
***Oidium lini***
flax, genetics 7077
linseed
control 3892
Germany 3045
UK 5464, 8673
yield losses 5464

***Oidium mangiferae***
mangoes
control 7801
South Africa 7801
***Oidium tingitaninum***
citrus
inoculation 1602
reviews 1080
varietal reactions 1602
**Oil palms** (*Elaeis guineensis* and *E. oleifera*)
*Armillaria mellea*
control 2311
Papua New Guinea 2311
bud rot
aetiology 7020
Ecuador 7020
diseases
Latin America 3058
reviews 3058
fatal yellows
aetiology 7020
Brazil 7020
*Fusarium oxysporum* f.sp. *elaeidis*
Brazil 4711
isolates 4711, 5467
molecular genetics 5467
seeds 7021
testing 7021
vegetative compatibility groups 5467
virulence 4711
Zaire 4711
*Ganoderma*
control 2311
Malaysia 2313, 2317
Papua New Guinea 2311
research 2317
spread 2313
*Ganoderma boninense*
control 2312, 2314-2315
environmental factors 2312
histopathology 1096
Malaysia 2312, 2314-2316
research 2316
mycoplasma-like organisms
epidemiology 6242
Kerala 6242
*Phytomonas*
pathogenicity 4696
RNA 4696
spear rot
aetiology 7020
Colombia 7020
**Oils,** control, *Sphaerotheca fuliginea*, cucumbers 6900
**Oilseed plants,** diseases, books 2438
**Okra (bhendi) yellow vein mosaic bigeminivirus**
*Ageratum conyzoides*, Indian Punjab 4025
okras
Assam 2217
control 5381, 8605
genetics 455
insecticides 6905
Nepal 6905
sowing date 2217, 5382-5383, 6905
transmission 5381-5383
varietal reactions 5384
**Okra leaf-curl bigeminivirus**
okras
Côte d'Ivoire 1569
epidemiology 1569
**Okras** (*Abelmoschus esculentus*)
*Fusarium solani*
Mexico 6138
Nematoda 6138
hibiscus esculentus yellow vein mosaic virus
Uttar Pradesh 7726
varietal reactions 7726
*Macrophomina phaseolina*
Indian Punjab 6906
rhizosphere 6906
okra (bhendi) yellow vein mosaic bigeminivirus
Assam 2217
control 5381, 8605
genetics 455
insecticides 6905
Nepal 6905
**Okras** *cont.*
okra (bhendi) yellow vein mosaic bigeminivirus *cont.*
sowing date 2217, 5382-5383, 6905
transmission 5381-5383
varietal reactions 5384
okra leaf-curl bigeminivirus
Côte d'Ivoire 1569
epidemiology 1569
*Pseudocercospora abelmoschi*
control 5385
Sikkim 5385
*Rhizoctonia solani*
Mexico 6138
Nematoda 6138
seedborne fungi, Rio de Janeiro 6907
***Olea europaea*** (*see* Olives)
**Oleander** (*see Nerium oleander)*
***Oligoporus placenta,*** *Pseudotsuga menziesii*, biological control 3166, 3991
**Olive latent II virus**
olives
characteristics 6244
Italy 6244
***Olivea tectonae,*** IMI distribution maps 3389
**Olives** (*Olea europaea*)
fungicides, application 6243
*Glomerella cingulata*, control 7826
olive latent II virus
characteristics 6244
Italy 6244
plant oils, antifungal agents 4611
*Pseudomonas syringae* pv. *savastanoi*
IAA 6410
Morocco 4712, 6245
strains 6410
varietal reactions 4712, 6245
strawberry latent ringspot nepovirus
immunodiagnosis 3900
Portugal 3900
*Verticillium dahliae*
control 7026
Greece 7026
***Olpidium***
lettuces
control 6853
hydroponics 6853
***Olpidium brassicae***
transmission
*Capsicum*, yellow vein 3491
lettuces
big vein 3491
ring necrosis 7666
**Oman**
bananas, *Microsphaeropsis* 495
figs, *Cerotelium fici* 6196
**ON 24082,** control, *Rhizoctonia solani*, potatoes 3725
***Oncidium flexuosum***
odontoglossum ringspot tobamovirus
hosts 5587
Poland 5587
***Oncobasidium theobromae***
cocoa
biology 553
breeding 551
control 554, 7874-7875
environmental factors 7875
Indonesia 551, 555, 7874
Malaysia 554
Philippines 7872
pruning 555
reviews 553
**Onion yellow dwarf potyvirus,** shallots, elimination 2173
**Onions** (*Allium cepa*)
*Alternaria porri*
control 3750, 4541, 7662
Haryana 3750
Mexico 7662
Sri Lanka 4541
varietal reactions 7662
West Bengal 754
*Aspergillus niger*
control 994, 4543
seeds 994
storage 4543
*Botrytis*, Kyushu 6840
*Botrytis allii*
antagonists 6072
biological control 4548
**Onions** *cont.*
*Botrytis allii cont.*
control 2175, 5826
culture media 5306
drought 6072
induced resistance 2861
storage 2861, 4548
*Botrytis cinerea*
control 6071
inoculum 6071
*Colletotrichum dematium*, culture media 5306
diseases
continuous cropping 5239
control 6069, 8241
USA 6069
*Erwinia herbicola*, Barbados 4550
*Fusarium oxysporum* f.sp. *cepae*, control 2175
*Fusarium proliferatum*
seeds 5124
vegetative compatibility groups 5124
*Glomus mosseae*, mycorrhizas, gene expression 5729
mycorrhizas
estimation 2513
Honshu 7296
*Peronospora destructor*
breeding 5304, 8505
control 422, 425, 4547, 6073, 6075, 7662
genetics 5304
Himachal Pradesh 3746
Italy 4547
Mexico 7662
Queensland 6073
Russia 422
USSR 425
varietal reactions 7662
yield losses 3746
pesticide residues, analysis 1228
*Phoma terrestris*
soil water 2863
varietal reactions 2863
yield losses 2863
plant extracts, antifungal agents 3139
postharvest decay
control 2860
Israel 2860
*Pyrenochaeta terrestris*
control 2175
culture techniques 424
isolates 8506
microsclerotia 8506
selection 4542
sporulation 424
temperature 8506
*Sclerotinia sclerotiorum*, control 6076
*Sclerotinia squamosa*
antagonists 6072
breeding 2858
control 6071
drought 6072
genetics 2858
inoculum 6071
reviews 6074
*Sclerotium cepivorum*
bacteria 4549
biological control 423, 4549
control 2176, 4545
Germany 4545
sclerotia 4549
*Xanthomonas campestris*, Barbados 4550
***Onobrychis sativa*** (*see Onobrychis viciifolia)*
***Onobrychis viciifolia***
*Fusarium*
Alberta 2098
screening 2098
**Ononis yellow mosaic tymovirus,** molecular genetics, cloning 7408
**Oomycetes,** molecular genetics, gene expression 734
***Operculina turpethum,*** plant extracts, antiviral agents 7394
***Ophimyia,*** epidemiology, *Fusarium solani* f.sp. *phaseoli*, *Phaseolus vulgaris* 2797
***Ophiobolus graminis*** (*see Gaeumannomyces graminis)*
***Ophiodothella,*** taxonomy, descriptions 1911
***Ophiopogon japonicus,*** viruses, elimination 6336

***Ophiosphaerella herpotricha***
*Cynodon dactylon*, identification 3999
molecular genetics, DNA probes 3999
***Ophiostoma***
identification, keys 1909
*Picea abies*
Norway 3159
succession 3159
***Ophiostoma ainoae***
*Picea abies*
insects 7118
Norway 7118
***Ophiostoma bicolor***
*Picea abies*
insects 7118
Norway 7118
***Ophiostoma brunneo-ciliatum***
*Pinus sylvestris*
bark beetles 1164
France 5553
insects 5553
pathogenicity 600
phenolic compounds 1164
temperature 599
***Ophiostoma capense***
*Protea*
South Africa 7131
taxonomy 7131
***Ophiostoma clavigerum***
*Pinus*, terpenoids 8790
*Pinus contorta*
British Columbia 2392
glyphosphate 2392
***Ophiostoma francke-grosmanniae*,** taxonomy, anamorph 3412
***Ophiostoma huntii, Pinus strobus*,** Italy 2380
***Ophiostoma ips***
*Pinus sylvestris*
France 5553
insects 5553
pathogenicity 600
temperature 599
***Ophiostoma minus***
*Pinus sylvestris*
pathogenicity 600, 1708
temperature 599
*Pinus taeda*
Louisiana 6309
susceptibility 6309
vectors 6309
***Ophiostoma novo-ulmi***
molecular genetics, restriction fragment length polymorphism 5017
*Ulmus*, karyotypes 6297
***Ophiostoma penicillatum***
*Picea abies*
insects 7118
Norway 7118
***Ophiostoma piceae***
mating types 7378
*Picea abies*, Italy 2380
*Pinus nigra*, Italy 2380
*Pinus strobus*, pathogenicity 8788
*Pinus sylvestris*, Italy 2380
*Quercus cerris*, Italy 2380
*Quercus petraea*, Germany 4801
*Quercus robur*, Germany 4801
taxonomy, ascospores 4228
ultrastructure, ascospores 4228
***Ophiostoma piliferum***
*Pinus nigra*, Italy 2380
*Pinus sylvestris*, Italy 2380
***Ophiostoma polonicum***
*Picea abies*
insects 7118
Norway 3159, 7118
succession 3159
**Ophiostomatales**
*Pinus sylvestris*
France 5553
insects 5553
taxonomy
ascospores 3413
evolution 3413
***Opuntia, Leptosphaeria opuntiae*,** taxonomy 1915
**Oranges** (*Citrus sinensis*)
bacteria
Minas Gerais 6213
São Paulo 6213
**Oranges** *cont.*
citrus psorosis complex, South Africa 1601
citrus tristeza closterovirus, strains 3872
decline
Mexico 6981
São Paulo 5437
soil types 5437
water uptake 6981
zinc 6981
*Deuterophoma tracheiphila*, varietal reactions 2263
*Diaporthe citri*
control 7799
Mizoram 6208
fungicide residues, washing 8653
*Ganoderma lucidum*
infection 2267
Texas 2267
*Glomerella cingulata*
control 5441
environmental factors 7796
Florida 5441, 7796
spread 7796
strains 2264
pathogenesis-related proteins, detection 7425
*Penicillium*
biological control 5442
storage 5442
*Penicillium ulaiense*
California 6989
postharvest decay 6989
pesticide residues, analysis 1226
pesticides, application 498
*Phytophthora nicotianae* var. *parasitica*
Florida 6986
soil amendments 6986
satsuma dwarf nepovirus
Japan 3014
symptoms 3014
transmission 3014
*Spiroplasma citri*, Iran 6982
storage decay, control 3875, 6205-6206
*Xanthomonas campestris* pv. *citri*
bacteriophages 6212
detection 6212
epidemiology 506
models 506
Taiwan 6212
yeasts
Argentina 502
postharvest decay 502
***Orbilla*,** Macaronesia 7368
**Orchards,** integrated pest management, Italy 2929
**Orchidaceae**
mycorrhizas 2530
viruses
Hawaii 7142
Japan 7972
**Organic amendments**
activity
*Colletotrichum capsici, Piper betle* 7977
*Peronospora arborescens, Papaver somniferum* 4877
**Organic compounds**
activity
*Erysiphe graminis*, wheat 3519
horticultural crops, diseases 7432
*Leptosphaeria nodorum*, wheat 3519
*Podosphaera leucotricha*, apples 3821
**Organomercury fungicides,** seed treatment, wheat 274
**Organophosphorus fungicides,** photochemistry 4939
**Ornamental bulbs,** viruses, Japan 7972
**Ornamental plants**
air pollution, Italy 7950
*Alternaria*
pathogenicity 5564
Ukraine 5564
bacteria, postharvest decay 1735
*Botrytis cinerea*
climate 3168
control 3168, 7949
forecasting 3168
diseases
certification 7277
integrated control 4852
**Ornamental plants** *cont.*
diseases *cont.*
Italy 5588
Japan 3178
spread 3992
fungi, suppressive soils 6328
magnesium, deficiency, Florida 4876
manganese, toxicity, Florida 4278
mycoplasma-like organisms
detection 1955
DNA 2595
pesticides
application 5676
books 5660
health hazards 6436
postharvest decay, spread 3992
*Pythium*, control 7251
tomato spotted wilt tospovirus
Georgia 3179
Sweden 1351
viruses
control 7124
elimination 4871, 7124
**Ornamental woody plants**
diseases, books 2375
fungi, Lithuania 2552
impatiens necrotic spot virus, Georgia 5556
viruses
Europe 3993
Italy 3993
***Ornithogalum umbellatum***
*Puccinia hordei*
alternative hosts 8857
South Australia 8857
***Ornithopus sativus, Colletotrichum trifolii*,** phytoalexins 8422
***Orobanche cernua*,** mycoplasma-like organisms, transmission 7696
***Orobanche crenata***
fungi, biological control 4030
*Ulocladium atrum*, biological control 4030
***Orobanche minor*,** fungi, biological control 4030
***Orosius albicinctus*,** transmission, mycoplasma-like organisms 7847
***Oroxylum indicum***
seedborne fungi
Assam 4820
control 4820
***Oryza***
rice tungro bacilliform badnavirus, screening 5947
rice tungro spherical ribotungrovirus, screening 5947
***Oryza barthii***
rice tungro bacilliform badnavirus, genetic resources 4409
rice tungro virus, symptoms 2731
***Oryza glaberrima***
*Magnaporthe grisea*
Côte d'Ivoire 3641
genetics 3641
varietal reactions 3641
rice tungro bacilliform badnavirus, genetic resources 4409
rice tungro virus, symptoms 2731
***Oryza officinalis***
*Cochliobolus lunatus*
genetic resources 3647
Tamil Nadu 3647
varietal reactions 3647
***Oryza sativa*** (*see* Rice)
***Ostrya carpinifolia, Cryphonectria parasitica*,** Italy 4795
***Otholobium hirtum, Acaulospora morrowae*,** mycorrhizas, ecology 4167
***Ougeinia oojeinensis***
*Stigmina dehradunensis*
India 590
taxonomy 590
***Oulema melanopus*,** transmission, brome mosaic bromovirus 1190
**Ourmia melon virus,** molecular genetics, RNA 2590
**Oxadiazolotriazinethiones,** antifungal properties 1814, 4948
**Oxadixyl**
control
*Erysiphe graminis*, wheat 6603

**Oxadixyl** *cont.*
control *cont.*
hops, diseases 8832
*Peronospora destructor*, onions 422, 6073, 6075
*Phytophthora, Hevea brasiliensis* 578
*Phytophthora infestans*, potatoes 398, 3716, 3718
*Pythium*, cucumbers 2210
fungicide tolerance
*Phytophthora infestans* 1511, 3716
*Pseudoperonospora cubensis* 3805
**Oxine-copper**, determination, water 74
**Oxycarboxin**
activity, *Koleroga noxia* 7866
control
*Crinipellis perniciosa*, cocoa 4747
*Puccinia horiana*, chrysanthemums 4867
*Puccinia psidii*, guavas 3886
*Ustulina deusta, Hevea brasiliensis* 2368
fungicide tolerance, *Puccinia horiana* 4867
**Oxyquinoline sulfate**, control, *Agrobacterium tumefaciens*, grapes 2258
**Oxytetracycline**
control
mycoplasma-like organisms, peaches 4626
rice, mycoplasma-like organisms 323
*Ziziphus sativa*, witches' brooms 2272
**Ozone**
activity
*Abies alba* 7931
*Acer rubrum* 1696
avocados 3006
citrus 3006
*Cochliobolus sativus*, wheat 831
*Erysiphe graminis*, wheat 832
*Leptosphaeria nodorum*, wheat 831, 4342
*Liriodendron tulipifera* 1696
*Phaseolus vulgaris* 1496
*Picea abies* 1163, 2398, 3163, 3990, 7121, 7931
*Picea rubens* 604
*Pinus sylvestris* 1163
*Pinus taeda* 1715, 2395-2396, 7941
*Populus* 3973
*Prunus serotina* 1696
*Puccinia recondita*, wheat 832
*Quercus rubra* 1696
damage
grapes 6971
*Phaseolus vulgaris* 6010
*Pinus echinata* 8798
watermelons 5380
***Pachycereus pecten-aboriginum***, mycorrhizas, growth 7309
***Pachyrhizus angulatus***
*Pseudocercospora takiensis*
taxonomy 749
West Bengal 749
***Paecilomyces lilacinus***
bamboos, Assam 4818
control, *Macrophomina phaseolina*, chickpeas 6019
hyperparasitism, *Aspergillus flavus* 4201
***Paecilomyces variotii***
*Bacillus circulans*, antagonism 4868
*Bacillus firmus*, antagonism 4868
cherries, storage 7752
control
fruit, storage decay 7428
potatoes, storage decay 7428
***Paeonia, Seimatosporium rosae***, conidia 6559
***Paeonia suffruticosa***
*Discosia grammita*, taxonomy 6559
*Seimatosporium grammitum*, taxonomy 6559
**Pak-choi** (*see* Chinese cabbages)
**Pakistan**
*Annona squamosa, Botryodiplodia theobromae* 3131
*Aralia, Botryodiplodia theobromae* 3131
bananas, banana bunchy top virus 3007, 5434
chickpeas, *Ascochyta rabiei* 2138
**Pakistan** *cont.*
*Eichhornia crassipes*, fungi 8845
lentils, *Rhizoctonia solani* 3698
*Pithecellobium dulce, Botryodiplodia theobromae* 3131
*Populus*, diseases 3140
potatoes
*Alternaria alternata* 8494-8495
diseases 7633
potato leaf roll luteovirus 8477
viruses 7637
rice, diseases 8845
*Salix*, diseases 3140
sugarcane
*Bipolaris sacchari* 3084
diseases 8697
*Puccinia melanocephala* 3084
trees, *Agrobacterium tumefaciens* 5650
vegetables, seedborne fungi 7433
wheat, *Tilletia indica* 5867
**Palmae**, diseases, India 1354
**Panacide M**, soil treatment 3920
***Panax japonicus***, plant extracts, antifungal agents 8121
***Panax pseudoginseng***
*Erysiphe panax*, China 3192
*Fusarium solani*
biological control 5592
soil fungistasis 7976
*Nectria radicicola*
biological control 5592
soil fungistasis 7976
*Rhizoctonia solani*
control 5593
light 8823
soil fungistasis 7976
**Pangola stunt fijivirus**, RNA 805
***Panicum amarum***, *Glomus*, mycorrhizas, dunes 4149
***Panicum capillare***
wheat streak mosaic rymovirus
Kansas 5134
reservoir hosts 5134
***Panicum crus-galli*** (*see Echinochloa crus-galli*)
***Panicum maximum***
*Bipolaris sacchari*, Florida 3209
*Cladosporium herbarum*, pollen 5193
***Panicum miliaceum***
*Aspergillus flavus*, aflatoxins 3630
*Sphacelotheca destruens*
induced mutations 8361
varietal reactions 8362
**Panicum mosaic satellite virus**, immunology, proteins 3430
***Panicum repens***
*Fusarium*
flooding 5610
Florida 5610
*Phoma*
flooding 5610
Florida 5610
***Panicum trypheron***, *Aspergillus flavus*, aflatoxins 3630
***Panicum virgatum***, mycorrhizas, phosphorus 1268
**Panolil**, soil treatment 7153
***Panonychus ulmi***, interactions, *Alternaria mali*, apples 1579
***Pantoea agglomerans***
apples
antibiotic resistance 2933
New York 2933
pears
antibiotic resistance 2933
New York 2933
***Papaver nudicaule***
turnip mosaic potyvirus
characteristics 7959
Japan 7959
***Papaver rhoeas***, *Pleospora papaveracea*, biological control 6362
***Papaver somniferum***
*Peronospora arborescens*, control 4877
turnip mosaic potyvirus, Czechoslovakia 1743
**Papaya ringspot potyvirus**
*Cucumis metulifera*
detection 1031
proteins 1031
serology 1031
**Papaya ringspot potyvirus** *cont.*
Cucurbitaceae, France 6889
melons, Mexico 6890
molecular genetics, nucleotide sequences 2581, 5079
pawpaws
coat proteins 3034
control 3035
cross immunization 3035
epidemiology 4684
genetic transformation 3034
Mexico 4684, 7002
resistance 3034
seeds 4683
Taiwan 3035
transmission 7002
vectors 4684
**Papaya ringspot (type W) potyvirus**
*Cucurbita maxima*, varietal reactions 5358
transmission 8204
watermelons
isolates 444
testing 444
varietal reactions 3792
**Papayas** (*see* Pawpaws)
**Paprika mild mottle virus**, *Capsicum*, nucleotide sequences 7698
**Papua New Guinea**
cardamoms, *Erwinia chrysanthemi* 1746
cocoa
diseases 548, 7869-7870
*Phytophthora* 558
*Phytophthora palmivora* 558
groundnuts, *Pseudomonas solanacearum* 1639
oil palms
*Armillaria mellea* 2311
*Ganoderma* 2311
plant diseases, legislation 1252
rain forests, *Hypoxylon* 1904
***Paracercospora egenula***, aubergines, Madhya Pradesh 5779
***Paraliburnia clypcalis***, transmission, brome mosaic bromovirus 4373
***Parapithomyces clitoriae***, taxonomy, new species 3404
**Parathion-methyl**
control
*Leptoxyphium fumago*, mangoes 1610
*Microxyphium columnatum*, mangoes 1610
*Tripospermum myrti*, mangoes 1610
***Paratrichodorus***, interactions, Coniferae, diseases 8786
***Paratrichodorus pachydermus***, transmission, tobacco rattle tobravirus 3453
**Parsley** (*Petroselinum crispum*)
phytoalexins, elicitors 4885
*Phytophthora megasperma* f.sp. *glycinea*, elicitors 7155
strawberry latent ringspot nepovirus
Italy 3201, 6351
seeds 3201, 6351
transmission 3201, 6351
**Parsnip yellow fleck virus**
molecular genetics
nucleotide sequences 4257, 5085
taxonomy 4257
***Partheniun hysterophorus***
*Puccinia abrupta* var. *partheniicola*, biological control 5616
*Puccinia melampodii*, biological control 5616
rhizosphere fungi, Andhra Pradesh 634
***Paspalum dilatatum***
*Claviceps paspali*
characteristics 5981
Japan 5981
***Paspalum distichum***
*Claviceps paspali*
characteristics 5981
Japan 5981
***Paspalum orbiculare***
*Claviceps queenslandica*
characteristics 5981
Japan 5981
***Paspalum scrobiculatum***, *Aspergillus flavus*, aflatoxins 3630
**Paspalum striate mosaic geminivirus**, Gramineae, Australia 927

***Paspalum thunbergii***
*Claviceps paspali*
characteristics 5981
Japan 5981
***Passalora,*** taxonomy 5042
***Passalora alni,*** *Alnus nepalensis,* Nepal 8778
***Passalora mertensiae,*** taxonomy, new species 7361
***Passiflora***
*Alternaria,* taxonomy 7346
*Alternaria passiflorae,* West Bengal 754
***Passiflora edulis*** (*see* Passion fruits)
***Passiflora ligularis,*** *Glomerella cingulata,* Colombia 3036
**Passion fruits** (*Passiflora edulis*)
*Fusarium solani,* Zimbabwe 4657
passionfruit mottle potyvirus, characteristics 2271
passionfruit woodiness potyvirus, characteristics 2271
*Phomopsis tersa*
Mauritius 2275
postharvest decay 2275
*Phytophthora nicotianae* var. *parasitica,* Zimbabwe 4657
Sri Lankan passion fruit mottle virus
characteristics 511
Sri Lanka 511
*Xanthomonas campestris* pv. *passiflorae,* control 6221
**Passionflower** (*see* Passion fruits)
**Passionfruit mottle potyvirus,** passion fruits, characteristics 2271
**Passionfruit woodiness potyvirus,** passion fruits, characteristics 2271
**Pastures**
barley yellow dwarf luteovirus, South Australia 1980
*Fusarium*
isolation 2088
New Zealand 3499
toxins 3499
mycorrhizas
growth 1260
phosphorus 97, 1260
Queensland 1260
Western Australia 97
***Paulownia,*** *Valsa paulowniae,* biological control 5548
***Paulownia tomentosa,*** cucumber mosaic cucumovirus, Italy 3169
**Pawpaws** (*Carica papaya*)
dieback, Israel 3033
diseases, control 510
*Fusarium solani*
Nematoda 1083-1084
pathogenicity 8659
plant age 1083
*Glomerella cingulata*
characteristics 3004
DNA 3865
variation 3865
mycoplasma-like organisms
India 6973
research 6973
mycorrhizas, growth 1273
*Myrothecium roridum,* susceptibility 4778
papaya ringspot potyvirus
coat proteins 3034
control 3035
cross immunization 3035
epidemiology 4684
genetic transformation 3034
Mexico 4684, 7002
resistance 3034
seeds 4683
Taiwan 3035
transmission 7002
vectors 4684
*Phytophthora*
control 8660
Tamil Nadu 8660
*Phytophthora palmivora,* reviews 7007
postharvest decay
biological control 8661
economics of control 8661
Japan 7806
storage decay
control 3037
Jammu and Kashmir 7807
**Pawpaws** *cont.*
*Ulocladium chartarum*
control 2962
storage 2962
viruses
India 6973
research 6973
***Paxillus involutus***
*Betula pendula,* mycorrhizas 4133
biochemistry, enzymes 1258
*Larix leptolepis,* mycorrhizas 6481
*Picea abies,* mycorrhizas 1166
*Picea sitchensis,* mycorrhizas 6481
*Pinus sylvestris,* mycorrhizas 700, 704, 8124
sclerotia, temperature 4139
**PCNB** (*see* Quintozene)
**Pe-tsai** (*see* Chinese cabbages)
**Pea early browning tobravirus**
*Nicotiana benthamiana,* genetic transformation 6585
peas, gene expression 950
**Pea enation mosaic enamovirus**
lucerne
Canada 4454
USA 4454
molecular genetics
nucleotide sequences 3436
RNA 3436
peas, Denmark 7612
**Pea seed-borne mosaic potyvirus**
faba beans, Syria 5988
grain legumes, New Zealand 8423
*Lathyrus,* seeds 2772
Leguminosae, Taiwan 2776
lentils, Syria 5988
peas
cytology 1498
detection 949, 5272
elimination 5269
gene banks 5269
gene expression 5809
genetic transformation 2800, 5809
genetics 4483
Manitoba 6011
reviews 2130
seeds 949, 1498, 5268, 5270, 8451
spread 6011
transmission 8451
UK 5268
varietal reactions 5268, 5270, 6011
tobacco
gene expression 5809
genetic transformation 5809
*Vicia,* seeds 2772
**Pea streak carlavirus**
lucerne
Canada 4454
USA 4454
**Peach latent mosaic viroid**
molecular genetics
nucleotide sequences 196
RNA 196
**Peaches** (*Prunus persica*)
*Agrobacterium tumefaciens*
biological control 471
Italy 471
*Botryosphaeria berengeriana* f.sp. *persicae*
Japan 8624
symptoms 8624
*Botryosphaeria dothidea*
Georgia 4627
gummosis 4627
decline, South Carolina 8625
diseases
control 7753
USA 7753
fungi, South Carolina 8625
*Leucostoma cinctum,* breeding 2977
*Leucostoma persoonii,* resistance 5414
*Monilinia fructicola*
control 7755
forecasting 7755
fungicide tolerance 5412
New South Wales 5412
New Zealand 7755
*Monilinia laxa*
biological control 3847, 5415, 7759
integrated control 2242
Spain 7759
**Peaches** *cont.*
*Monilinia laxa cont.*
temperature 3845
mycoplasma-like organisms
Germany 1055
transmission 1055, 7754
*Nectria radicicola*
cold storage 6141
Ontario 6141
*Pestalotiopsis disseminata,* enzymes 3846
*Phomopsis amygdali*
control 4631
Italy 4631
phylloplane fungi, fungicides 2242
plum pox potyvirus
Italy 2969
varietal reactions 3844
prune dwarf ilarvirus
California 8255
immunodiagnosis 6140
Yugoslavia 6163
prunus necrotic ringspot ilarvirus
California 8255
detection 1583
*Pseudomonas syringae* pv. *persicae*
detection 7761
quarantine 7761
*Rhizopus stolonifer*
control 5413
enzymes 5413
rickettsia-like organisms, detection 2970
silver leaf
environmental factors 4630
Italy 4630
*Sphaerotheca pannosa*
biological control 7757
control 4629
Italy 7758
Korea Republic 4629
overwintering 7758
*Sphaerotheca pannosa* var. *persicae*
control 6164, 6945
epidemiology 1061
France 1061, 7756
Mexico 6164, 6945
Spain 7756
susceptibility 7756
*Stigmina carpophila*
control 6164
Mexico 6164
*Taphrina deformans*
control 6164, 7760
fatty acids 6944
Italy 7760
Mexico 6164
tomato ringspot nepovirus
detection 4625
Nematoda 3814
USA 3814
*Tranzschelia discolor*
control 6943
Mexico 6937
Taiwan 6943
*Tranzschelia pruni-spinosae*
control 4036
Malawi 4036
viruses
detection 4607
India 4607
Italy 1587
wood destroying fungi, interactions 6505
X-disease
control 4626
Massachusetts 4626
mycoplasma-like organisms 4626
*Xanthomonas campestris* pv. *pruni*
biological control 3848
Italy 3848
*Xylella fastidiosa,* roots 470
**Peanut mottle potyvirus**
*Arachis,* elimination 7027
groundnuts
elimination 7027, 8681
Florida 8681
seeds 8681
Leguminosae, Taiwan 2776
soyabeans
characteristics 7590
South Africa 7590
**Peanut stripe potyvirus**
*Arachis,* elimination 7027

**Peanut stripe potyvirus** *cont.*
groundnuts
control 5471
elimination 7027, 8681
Florida 8681
India 5471
seeds 8681
Leguminosae, Taiwan 2776
serology 191
taxonomy 191
**Peanut stunt cucumovirus**
molecular genetics, gene expression 4255
preservation 8201
*Trifolium repens*, epidemiology 4457
**Peanuts** (*see* Groundnuts)
**Pear blister canker viroid**
molecular genetics, nucleotide sequences 5394
pears, identification 1051
**Pearl millet** (*see Pennisetum americanum*)
**Pears** (*Pyrus communis* and *P. pyrifolia*)
*Alternaria*, varietal reactions 6932
*Alternaria alternata*
control 5397
France 6151
histopathology 8618
induced resistance 2968
Italy 3816
toxins 8618-8619
*Botrytis cinerea*
control 5826
histology 466
infection 466
brown core, histopathology 8616
*Cytospora carposperma*, control 467
decline
mycoplasma-like organisms 6930
reviews 6930
diseases
California 7727
control 465, 1040
cultural methods 7743
integrated control 456, 7727
Italy 456, 465
New Zealand 7743
varietal reactions 7743
Washington 1040
*Erwinia amylovora*
antibiotics 2933
biological control 1041, 3832
forecasting 1572
host parasite relationships 1053
molecular genetics 1053
New York 2933
reviews 6913
selection 5400
spread 1582
Turkey 457, 1582
varietal reactions 457
vectors 7729
Yugoslavia 2934
fungicide residues
determination 7246
Italy 3831
storage 2219
varietal reactions 2219
*Glomerella cingulata*
environmental factors 5399
Honshu 6934
*Nectria galligena*, Chile 6152
*Nectria radicicola*
cold storage 6141
Ontario 6141
*Pantoea agglomerans*
antibiotic resistance 2933
New York 2933
pear blister canker viroid, identification 1051
pear vein yellows, viruses 3815
*Phialophora malorum*
inoculum 2965
postharvest decay 2965
spread 2965
*Physalospora*, epidemiology 5398
*Physalospora piricola*
phenology 6933
spore dispersal 6933
*Phytophthora syringae*, storage 2930
*Pseudomonas*
antibiotic resistance 2933
New York 2933
**Pears** *cont.*
*Pseudomonas fluorescens*, vectors 7729
*Pseudomonas syringae*
control 2967
Spain 2967
survival 2967
scald
control 4609
storage 4609
*Stemphylium vesicarium*
control 2966
environmental factors 2966
models 2966
Spain 2966
stony pit, Ontario 4620
storage decay
books 4608
control 2932, 5396, 8607
Himachal Pradesh 4619
Spain 2932
*Valsa mali* var. *pyri*, taxonomy 8617
*Venturia pirina*
control 1052, 2963, 7744
fertilizers 6931
fungicide tolerance 1052, 2963
Japan 1052, 2963-2964, 7744
rain 5395
spore dispersal 5395
susceptibility 7744
varietal reactions 2964
viruses
elimination 1571
testing 1571
*Xylella fastidiosa*, Taiwan 7745
**Peas** (*Pisum sativum*)
*Acremonium strictum*, inoculum density 5273
*Agrobacterium tumefaciens*, proteins 1499
*Aphanomyces euteiches*, biological control 4484
*Ascochyta*, control 7614
*Ascochyta pisi*
breeding 2803
control 7615
integrated pest management 2129
reviews 6794
*Ascochyta rabiei*, pathogenicity 2140
bean leaf roll luteovirus, genetics 372
bean yellow mosaic potyvirus, strains 6012
*Botrytis cinerea*
Belgium 7616
control 7615-7616
damping off, biological control 228
diseases
breeding 4480
continuous cropping 5239
control 2128
India 4480
reviews 4480
rotations 3472
Saskatchewan 3472
seed treatment 244, 953
tillage 3472
varietal reactions 8453
*Erwinia chrysanthemi*
enzymes 4292
pathogenicity 4292
*Erysiphe*, breeding 4485
*Erysiphe pisi*
carbon 2132
host parasite relationships 2132
rain 4281
sowing date 8454
Uttar Pradesh 8454
*Erysiphe polygoni*
integrated pest management 2129
Tunisia 1479
varietal reactions 3694, 4482, 6791, 7613
fungicide residues, determination 4100
*Fusarium oxysporum*, plant extracts 1831
*Fusarium oxysporum* f.sp. *pisi*
breeding 2803
races 7617
*Fusarium solani*, control 7614
*Fusarium solani* f.sp. *phaseoli*
host parasite relationships 2131
pathogenesis-related proteins 2131
**Peas** *cont.*
*Gigaspora calospora*
mycorrhizas
growth 2519
nitrogen fixing bacteria 2519
lettuce mosaic potyvirus, Jiangsu 8452
*Macrophomina phaseolina*
host range 6015
pathotypes 6015
South Australia 6015
*Mycosphaerella pinodes*
Belgium 7616
control 7615-7616
elicitors 8456
enzymes 951, 8455
genetics 2801
host parasite relationships 951, 8456
reviews 6794
varietal reactions 8453
*Nectria haematococca*, phytoalexins 215
*Nectria rigidiuscula*, toxins 6014
pea early browning tobravirus, gene expression 950
pea enation mosaic enamovirus, Denmark 7612
pea seed-borne mosaic potyvirus
cytology 1498
detection 949, 5272
elimination 5269
gene banks 5269
gene expression 5809
genetic transformation 2800, 5809
genetics 4483
Manitoba 6011
reviews 2130
seeds 949, 1498, 5268, 5270, 8451
spread 6011
transmission 8451
UK 5268
varietal reactions 5268, 5270, 6011
*Peronospora viciae*
control 7614
genetics 2802
*Phoma medicaginis* var. *pinodella*
control 7615
reviews 6794
phytoalexins
host parasite relationships 4481
models 4481
*Pseudomonas syringae* pv. *pisi*
Lithuania 2612
yield losses 8459
*Pythium aphanidermatum*, biological control 12
*Pythium ultimum*
biological control 12, 938
control 7614
ethanol 938
seeds 938
red clover mottle comovirus
proteins 5271
source sink relations 7611
red clover vein mosaic carlavirus
characteristics 209
Lithuania 209
*Rhizoctonia solani*, integrated control 2804
root rots
Netherlands 6792-6793
rotations 6793
Ukraine 952
*Sclerotinia sclerotiorum*
cultural methods 8250
UK 8250
varietal reactions 8458
seed treatment, seed quality 6013
soil fungi
phenolic compounds 3695
urea 6790
*Uromyces pisi*, control 3696
*Uromyces viciae-fabae*
integrated pest management 2129
varietal reactions 4482, 6791
vinclozolin, persistence 8104
viruses, New Zealand 8423
*Xanthomonas campestris* pv. *phaseoli*, India 2805
**Peat,** *Pythium ultimum*, biological control 746
**Pecans** (*Carya illinoensis*)

**Pecans** *cont.*
*Cladosporium caryigenum*
Alabama 4693
control 4692-4693
Georgia 4692
host parasite relationships 2288-2289
phenolic compounds 2288-2289
*Cristulariella moricola*, Georgia 8635
diseases, control 4691, 7249
*Glomerella cingulata*
Alabama 4693
control 4693-4694
Georgia 4694
*Phytophthora cactorum*
control 4694
Georgia 4694
***Pectobacterium*** *(see Erwinia)*
**Pefurazoate,** activity, *Gibberella fujikuroi* 3293, 3646
***Pelargonium,*** diseases, certification 7271
**Pelargonium flower break carmovirus**
*Pelargonium zonale*
detection 6339
latent infections 6339
***Pelargonium graveolens***
*Rhizoctonia solani*
planting date 4001
varietal reactions 4001
***Pelargonium hortorum***
*Botrytis cinerea*, fungicide tolerance 73
*Pseudomonas cichorii*, Iran 1737
*Pythium ultimum*
resistance 1733
silver thiosulfate 1733
*Xanthomonas campestris* pv. *pelargonii*, Iran 1737
***Pelargonium zonale***
pelargonium flower break carmovirus
detection 6339
latent infections 6339
***Peltophorum ferrugineum,*** plant extracts, antiviral agents 7057
**Penconazole**
activity, *Podosphaera leucotricha*, apples 2954
control
*Acremonium*, melons 7721
*Akaropeltopsis*, avocados 2280
*Botryosphaeria dothidea*, apples 4613
*Erysiphe cichoracearum*, tobacco 5506
*Ganoderma boninense*, oil palms 2315
*Nectria galligena*, apples 6148
*Pseudocercospora purpurea*, avocados 2280
*Puccinia asparagi*, asparagus 8530
fungicide tolerance, *Venturia inaequalis* 7736
**Pencycuron**
activity
*Gaeumannomyces graminis* var. *tritici*, wheat 2640
*Rhizoctonia solani* 6448
wheat 2640
control
cotton, seedborne fungi 5517
*Rhizoctonia solani*
cotton 3112
*Delphinium* 5578
potatoes 3723, 3725, 6823
rice, diseases 7535
seed treatment, *Vigna radiata* 2816
soil treatment 2816
uptake, rice 8087
***Penicillium***
antagonism
*Botrytis cinerea* 5829
*Pythium indicum* 7686
*Sclerotinia sclerotiorum* 1872, 4177
apples, storage 2221
cherries
control 7750
storage 7750
control
*Botrytis cinerea*
strawberries 8629
tomatoes 6100
*Fusarium oxysporum* f.sp. *dianthi*, carnations 613
*Pleospora betae*, sugarbeet 541
***Penicillium*** *cont.*
control *cont.*
*Pseudocercosporella herpotrichoides*, wheat 275
*Cyclamen persicum*
Poland 6347
seeds 6347
faba beans
Hungary 8435
seeds 8435
groundnuts
detection 7033
resistance 4717
rhizosphere 1103
seeds 4717, 7033
toxins 7033
immunodiagnosis 1932
Indian mustard, seeds 4555
laboratory tests
antifungal agents 3290
pH 4191
plant extracts 1832, 3290
lupins
seeds 1478
storage 1478
maize, storage 7500
molecular genetics, fungicide tolerance 2223
oranges
biological control 5442
storage 5442
*Oroxylum indicum*
Assam 4820
seeds 4820
peas, Ukraine 952
pineapples, Peru 4682
potatoes, soil management 6813
rice, biological control 8390
soil
Bangladesh 119
soil management 6813
sorghum
control 5197
seeds 5197
Southern Africa, reviews 126
strawberries, storage 5419
taxonomy
chemotaxonomy 5041
culture media 3410
toxins 4173, 6537
*Vigna umbellata*
control 6026
seeds 6026
***Penicillium aurantiogriseum***
barley, Czechoslovakia 1374
IMI descriptions 124
mangoes
control 3021
storage 3021
*Pinus gerardiana*, seeds 8791
wheat
Czechoslovakia 1374
ergosterol 1385
seeds 1385
***Penicillium brevicompactum,*** IMI descriptions 124
***Penicillium camembertii,*** IMI descriptions 124
***Penicillium chrysogenum,*** laboratory tests, heavy metals 1871
***Penicillium citrinum***
control, *Xanthomonas campestris* pv. *cyamopsidis*, guar 2819, 4507
IMI descriptions 124
laboratory tests, plant extracts 1833
maize
toxins 5127
varietal reactions 5127
*Mucuna pruriens*, seeds 1744
rice
toxins 5127
varietal reactions 5127
soil, mulching 747
wheat
toxins 5127
varietal reactions 5127
yams
control 6068
postharvest decay 6068
***Penicillium digitatum***
bacteria, antagonism 8147
***Penicillium digitatum*** *cont.*
citrus
biological control 7795, 8651
control 3015
postharvest decay 8651
storage 3015, 4667
grapefruits
induced resistance 6207
postharvest decay 6207
lemons
phytoalexins 4676
postharvest decay 4676
***Penicillium expansum***
apples
alkaloids 4617
biological control 2225
control 1046
postharvest decay 2225
Spain 2932
storage 1046, 2220, 2932, 2961, 5392
laboratory tests, plant oils 8119
pears
Himachal Pradesh 4619
Spain 2932
storage 2932, 4619
sugarbeet
biological control 8712
Japan 8712
storage 8712
*Vaccinium*, Ukraine 2243
***Penicillium frequentans,*** antagonism, *Monilinia laxa* 2242, 3847
***Penicillium funiculosum,*** control, *Verticillium dahliae*, cotton 1136
***Penicillium glabrum,*** IMI descriptions 124
***Penicillium griseofulvum***
laboratory tests, phenolic compounds 5194
maize
control 5194
toxins 5194
***Penicillium islandicum,*** IMI descriptions 124
***Penicillium italicum***
citrus
biological control 7795, 8651
postharvest decay 8651
storage 4667
fungicide tolerance, isoenzymes 1815
laboratory tests
azoles 4105
fenarimol 3298
imazalil 3298
walnuts, storage 7808
***Penicillium janthinellum,*** control, *Phytophthora cinnamomi*, *Rhododendron obtusum* 8810
***Penicillium oxalicum***
antagonism, *Fusarium oxysporum* f.sp. *lycopersici* 4206
cucumbers
fungicide tolerance 2215
Ontario 2215
IMI descriptions 124
laboratory tests, plant extracts 5697
maize
control 4399
seed treatment 4399
soyabeans, seeds 7598
watermelons, control 3799
***Penicillium pinophilum***
control, *Corticium rolfsii*, sesame 1105
tomatoes
biological control 3480
soil solarization 3480
***Penicillium purpurogenum***
antagonism
*Fusarium oxysporum* f.sp. *lycopersici* 4206
*Monilinia laxa* 1890, 3847
IMI descriptions 124
physiology, enzymes 1890
***Penicillium roquefortii,*** IMI descriptions 124
***Penicillium steckii***
cocoa
enzymes 2340
storage 2340
***Penicillium ulaiense***
citrus
California 6989

***Penicillium ulaiense*** *cont.*
citrus *cont.*
postharvest decay 6989
***Penicillium verrucosum*** **var. *cyclopium***
cassava
Burundi 7656
toxins 7656
garlic, Poland 5305
***Penicillium viridicatum***
IMI descriptions 124
melons, physiology 8593
***Pennisetum,*** *Magnaporthe grisea,* Karnataka 2092
***Pennisetum americanum***
*Aspergillus flavus*
aflatoxins 3629
varietal reactions 3629
carbendazim, activity 2462
*Claviceps fusiformis*
reviews 899
sclerotia 3627
*Cochliobolus lunatus,* enzymes 2072
diseases, genetic resources 2070, 8244
*Fusarium*
Lesotho 5038
Nigeria 5038
seeds 3505
Southern Africa 3505
Zimbabwe 5038
*Fusarium equiseti*
seeds 3505
Southern Africa 3505
Johnsongrass mosaic potyvirus
Queensland 8359
varietal reactions 8359
leaf spot, Egypt 6627
*Magnaporthe grisea*
genetics 317
Karnataka 2092
mycorrhizas, pesticides 2529
pesticides, toxicity 7214
*Puccinia,* reviews 1448
*Puccinia substriata* var. *indica*
genetics 2725
Georgia 2725
virulence 2725
*Puccinia substriata* var. *penicillariae*
environmental factors 8363
screening 8363
*Sclerospora graminicola*
control 3628, 7519
environmental factors 6710
enzymes 6709, 7523
estimation 5200
host parasite relationships 897
induced resistance 7521
pathotypes 316
plant water relations 7522
Rajasthan 6710
resistance 316, 6709
reviews 898
seeds 6709
selection 4406, 8360
tissue culture 2724
toxins 7523
virulence 897
West Africa 316
seedborne fungi
Georgia 4407
toxins 4407
sugarcane mosaic potyvirus
Queensland 8359
varietal reactions 8359
*Tolyposporium penicillariae*
breeding 896
morphology 2071
Nigeria 2071
susceptibility 5199
***Pennisetum clandestinum***
*Bipolaris zeae*
Argentina 2760
seeds 2760
***Pennisetum glaucum*** **(*see Pennisetum americanum*)**
***Pennisetum purpureum***
viruses
characteristics 8395
Parana 8395
***Pennisetum typhoides*** **(*see Pennisetum americanum*)**
***Penstemon haydenii,*** mycorrhizas, Nebraska 2510
**Pentachloronitrobenzene** (*see* Quintozene)
***Peperomia,*** *Colletotrichum capsici,* Assam 3400
**Pepper (*Capsicum*)** (*see Capsicum*)
**Pepper hausteco virus**
*Capsicum*
inoculation 8575
Mexico 8575
**Pepper mild mottle tobamovirus**
*Capsicum*
amino acids 4592
nucleotide sequences 7698
pathotypes 6117, 8539
screening 6881
Spain 6117, 8539
tomatoes
pathotypes 8539
Spain 8539
**Pepper mottle potyvirus**
coat proteins 187
nucleotide sequences 187
taxonomy 185-187
**Pepper (*Piper*)** (*see Piper nigrum*)
**Pepper vein banding virus,** *Capsicum,* transmission 5344
**Peppermint** (*see Mentha piperita*)
***Periconia***
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
***Periconia atropurpurea,*** sugarcane, plant extracts 3910
***Periconia circinata***
sorghum
host parasite relationships 3622
phytoalexins 3622
toxins 3621
***Periconia digitatum,*** India 3402
***Periconia narsapurensis,*** potatoes, Assam 6045
***Periconia nilgirica,*** India 3402
***Perilla crispa***
*Pseudomonas solanacearum*
spread 8830
Taiwan 8830
***Perilla frutescens,*** *Corynespora cassiicola,* Japan 7145-7146
***Peronosclerospora***
maize
reviews 887
selection 5186
molecular genetics
DNA 7318
RNA 7318
***Peronosclerospora philippinensis,*** maize, mixed infections 5909
***Peronosclerospora sacchari***
maize, breeding 4378
sugarcane
breeding 5481
Taiwan 5481
***Peronosclerospora sorghi***
maize
Brazil 886
control 4390
environmental factors 2055
Karnataka 4390
mixed infections 5909
sporulation 2055
varietal reactions 3598, 8351
yield losses 4390
sorghum
biochemistry 306
Colombia 2721
genetics 2069
Honduras 3620
host parasite relationships 1444
India 3608
isolation 313
Kerala 311, 313
pathotypes 3607
resistance 306, 310
screening 310, 1443, 2720
spores 313
varietal reactions 1432, 1434, 1438, 3608-3609, 3620, 3623, 7517
yield losses 3623
Zimbabwe 1444, 2720, 3608
*Sorghum halepense,* Colombia 2759
***Peronospora***
hops
Czechoslovakia 4889
forecasting 4889
soyabeans, induced mutations 8427
***Peronospora amaranthi,*** *Amaranthus,* Himachal Pradesh 3392
***Peronospora arborescens,*** *Papaver somniferum,* control 4877
***Peronospora destructor***
*Allium roylei*
breeding 5304
genetics 5304
onions
breeding 5304, 8505
control 422, 425, 4547, 6073, 6075, 7662
genetics 5304
Himachal Pradesh 3746
Italy 4547
Mexico 7662
Queensland 6073
Russia 422
USSR 425
varietal reactions 7662
yield losses 3746
***Peronospora farinosa,*** spinach, varietal reactions 5319
***Peronospora farinosa*** **f.sp. *betae***
sugarbeet
epidemiology 4729
Slovakia 4729
***Peronospora humuli***
hops
control 2419
varietal reactions 2419
***Peronospora manshurica***
soyabeans
control 6765
cultural methods 6766
genetics 5250
Heilongjiang 5251
Mexico 6765
races 5251
seeds 6765
***Peronospora parasitica***
cauliflowers
control 3753
postharvest decay 3753
Indian mustard
control 1537
India 5310
screening 5310
radishes
environmental factors 6838
host parasite relationships 4538
inoculum 4538
Japan 2180
morphology 6838
pathogenicity 2180
seeds 4539
yield losses 4539
***Peronospora tabacina***
tobacco
biochemistry 1130
breeding 7063
control 3105
Cuba 3106
Europe 7883
fungicide tolerance 3106
host parasite relationships 4762
induced resistance 1130
Mediterranean countries 7883
pathogenicity 7062
reviews 1670
varietal reactions 4762, 7062
***Peronospora trifoliorum,*** lucerne, host parasite relationships 4455
***Peronospora viciae***
peas
control 7614
genetics 2802
***Peronospora viciae*** **f.sp. *fabae,*** taxonomy 8172
***Persea americana*** (*see* Avocados)
***Persea indica,*** *Phytophthora cinnamomi,* antagonists 5455
**Persimmons** (*Diospyros kaki*)
*Alternaria alternata,* control 3882
*Botrytis cinerea*
Armenia 7009

**Persimmons** *cont.*
*Botrytis cinerea cont.*
Azerbaijan 7009
Republic of Georgia 7009
*Botrytis diospyri*, Republic of Georgia 4686
*Macrophomina diospyricola*, Republic of Georgia 4686
*Pestalotia diospyri*, Republic of Georgia 5532
*Pestalotiopsis longiseta*
China 1308
taxonomy 1308
*Phomopsis diospyri*, Republic of Georgia 4686
**Peru**
cocoa, *Moniliophthora roreri* 3094
pineapples
*Fusarium* 4682
*Penicillium* 4682
***Pestalosphaeria accidenta***
taxonomy
China 1309
new species 1309
***Pestalosphaeria elaeidis***
coconuts
control 7024
Kerala 7024
***Pestalosphaeria hansenii***, taxonomy, China 1309
***Pestalosphaeria jinggangensis***
taxonomy
China 1309
new species 1309
***Pestalotia***
chestnuts, Republic of Georgia 5532
forest trees
Chile 7085
cultural methods 7085
***Pestalotia curta***
taxonomy 757
West Bengal 757
***Pestalotia diospyri***, persimmons, Republic of Georgia 5532
***Pestalotia gracilis***
taxonomy 757
West Bengal 757
***Pestalotia guepini***, *Rhododendron*, control 7951
***Pestalotia macrotricha***, tamarinds, Karnataka 1614
***Pestalotia mangiferae***
laboratory tests, homeopathic drugs 6511
mangoes
dieback 3022
Himachal Pradesh 3022
spore germination 6512
***Pestalotia strictica***
taxonomy 757
West Bengal 757
***Pestalotia zonata***
taxonomy 757
West Bengal 757
***Pestalotiopsis***
*Chamaecyparis obtusa*, Japan 4851
China 1898
*Excoecaria agallocha*, West Bengal 8843
fruit
China 1312
taxonomy 1312
*Rhaphiolepsis umbellata*, phytoalexins 7129
taxonomy, proteins 1311
***Pestalotiopsis agallochae***, *Excoecaria agallocha*, West Bengal 8844
***Pestalotiopsis angusta***, China 1898
***Pestalotiopsis aquatica***, China 1898
***Pestalotiopsis ardisiae***
China 1898
taxonomy, new combinations 1307
***Pestalotiopsis baarnensis***, China 1898
***Pestalotiopsis carveri***, China 1898
***Pestalotiopsis cruenta***, China 1898
***Pestalotiopsis cryptomeriae***
China 1898
taxonomy, new combinations 1307
***Pestalotiopsis diospyri***, taxonomy, new combinations 1307
***Pestalotiopsis disseminata***, peaches, enzymes 3846
***Pestalotiopsis eriobotrifolia***
loquats
China 1308
taxonomy 1308
***Pestalotiopsis funerea***
*Pinus*, biology 8793
*Sequoia sempervirens*
host parasite relationships 5555
plant oils 5555
*Trichothecium roseum*, hyperparasitism 4826
***Pestalotiopsis glandicola***, *Flacourtia cataphracta*, Assam 3400
***Pestalotiopsis gracilis***, China 1898
***Pestalotiopsis guepini***
*Camellia*
characteristics 5562
China 5562
***Pestalotiopsis longiseta***
blackberries, taxonomy 4634
persimmons
China 1308
taxonomy 1308
***Pestalotiopsis longisetula***
China 1898
taxonomy, new combinations 1307
***Pestalotiopsis macrospora***, China 1898
***Pestalotiopsis maculans***
morphology 1310
taxonomy 1310
***Pestalotiopsis malicola***, taxonomy, new combinations 1307
***Pestalotiopsis mangiferae***
*Litchi chinensis*, Indian Punjab 3880
mangoes, Indian Punjab 4681
***Pestalotiopsis oleandri***, China 1898
***Pestalotiopsis osiridis***
*Castanea mollissima*
China 1308
taxonomy 1308
***Pestalotiopsis palmarum***
coconuts
Mexico 7022
physiology 2321
vitamins 1634
***Pestalotiopsis podocarpi***, taxonomy, new combinations 1307
***Pestalotiopsis psidii***
*Acca sellowiana*
Italy 3885
storage 3885
guavas
Bangladesh 1615
control 1615, 6216
Taiwan 6216
laboratory tests
homeopathic drugs 6511
plant oils 8119
spore germination 6512
***Pestalotiopsis quercicola***
China 1898
taxonomy, new combinations 1307
***Pestalotiopsis rosae***, taxonomy, new combinations 1307
***Pestalotiopsis royenae***, China 1898
***Pestalotiopsis sorbi***, taxonomy, new combinations 1307
***Pestalotiopsis stellata***
*Myrica rubra*
China 1308
taxonomy 1308
***Pestalotiopsis toxica***
China 1898
taxonomy, new combinations 1307
***Pestalotiopsis versicolor***
*Ceriops decandra*
physiology 8842
West Bengal 8842
cloves
control 7151
hosts 7151
Maharashtra 7151
guavas
physiology 6217
varietal reactions 6217
**Pesticides** (*see also* Fungicides)
activity
assessment 7232
barley 2623
chicory 7668
models 4943
**Pesticides** *cont.*
activity *cont.*
mycorrhizal fungi 4124
mycorrhizas 2529
soil flora 2475
wheat 2623
analysis 3261, 4080-4081, 4086, 4089
books 4071
reviews 676
application 2456, 3258, 3260, 5688, 6418
books 1222
citrus 68
developing countries 8048
environmental impact 1250
fruit trees 6911
methods 1793
models 4093-4094
oranges 498
photography 7213
retention 41
safety 1235
seeds 69
spray deposition 29
spraying 1235, 5670
weather 8063
application rates, fruit trees 26
bioassays, phytotoxicity 7214
books 4076, 7203
chemistry, conferences 17
consumer attitudes 8059
control, biological control agents 5644
crop quality 2455
databases 1806, 8056
Netherlands 5663
UK 5662
degradation
crops 4110
fungi 1795
models 4945
soil 3305, 3307, 4078, 4109-4110, 8071
water 3306, 4109
deposition, estimation 675
detection 4085
developing countries
legislation 1822
safety 1822
development 2457, 3277, 4941-4942, 8041
biotechnology 684
regulations 683
reviews 5668
directories 1792, 4074, 4937, 7230
France 4092
Japan 6417
USA 3264
disposal 65-66
books 3254
containers 3269, 6439
equipment 64
Europe 62
safety 63
UK 62
Ukraine 6433
economics 3259
USA 1234
environmental impact 66, 87, 1826, 3259, 6414, 8041
assessment 53, 4958, 8037, 8111
models 1804, 1807
reviews 2478
soil 3304
UK 3301
evaluation, computer techniques 20
food, safety 3271
food supply 5674
formulations 7206
analysis 3285
books 1222
carriers 3274, 3278
development 43, 681
emulsions 3281
legislation 8046
Malaysia 6423
rice 5938
safety 43, 8047
surfactants 3279
genetic engineering 24
groundwater, models 3267
history 24

**Pesticides** *cont.*
information
Australia 5659
books 5659
UK 5661
integrated pest management 6431
legislation 8042, 8077
Africa 2458
books 4077
Chile 4091
developing countries 59
Europe 62, 3269
Germany 3269, 8072-8073
Japan 5677
Louisiana 21
Mexico 5678
Netherlands 8066
storage 5673
Sweden 8062
toxicity 8043
UK 62, 2453, 6427, 8043
USA 1229-1231, 1234, 4073, 4075, 5678, 7233, 8043, 8081
wines 7215
new products 7204
reviews 7204
nontarget effects 6456
aquatic environment 7259-7262
aquatic insects 3300
aquatic organisms 8107-8108
beneficial arthropods 8112
birds 8109, 8113
Israel 8117
man 1247
reviews 8086
nitrogen fixing bacteria 1825
reviews 3314
soil fauna 3308
soil flora 3308, 3311
USA 4073
wildlife 8110
occupational hazards 4069
assessment 8044-8045
estimation 8054
Europe 8045
models 86, 3272, 8045
packaging 28
safety 8047
public health 25, 2456
books 4068
UK 3301
public relations 8039
registration 49, 1798
books 1223, 4077
California 7231
Europe 679, 6422
India 1224
UK 3276
USA 677, 680, 1232-1233, 7212, 8058
regulation
Asia 7216
books 1223, 5666
Denmark 1236
developing countries 7216
South East Asia 678
tobacco 1655
research 685
residues 2456
analysis 49, 57, 1225, 1796-1797, 1821, 4079, 4083-4084, 4087-4088, 4090, 5679, 7201, 7205, 7219-7227, 8068-8070, 8116
atmosphere 45
cereals 7258
Chile 2459
crops 51, 1250, 4110
detection 50, 55-56, 682, 1229, 5675
drinking water 1249, 2470, 8069, 8081
food 27, 32-35, 1799, 1823, 2474, 2476, 3268, 4067, 4072, 4957, 7217, 8067, 8081
France 1248
fruit 1226-1227, 2459, 2472, 4082
Germany 2472, 4940
groundwater 23, 1248, 1801, 1808-1809, 1827, 2470, 3302, 8055, 8070, 8115
health hazards 6436
immunoassay 58, 8074

**Pesticides** *cont.*
residues *cont.*
Italy 8116
leeks 1228
legislation 60
models 23, 1805, 1808-1809, 1827
monitoring 46, 1799, 2473
onions 1228
public health 36
rain 4940
regulation 47-48
river water 8116
safety 1229
soil 83, 1250, 1805, 1808, 1827, 3302, 4109-4110, 7201, 7218-7227, 7258
UK 4067
vegetables 1226-1227, 2472, 4082
water 85, 1250, 1805, 1820-1821, 3303, 4109, 5675, 5681, 7237, 8068, 8075
wine 8081
wines 7215
risk, models 1803
risk assessment 38-40
run off, models 1810
safety 42, 66, 3263, 5688, 7211, 7233
books 5666, 7209
combustion 3280
databases 3265-3266
protective clothing 2452
UK 5664
USA 1234, 3275
USSR 2449
soil
environmental impact 1828
models 84, 5671, 8057
movement 84, 5671
residues 84
soil biology 88
volatilization 5665
spraying, books 5672
sprays, drift 8064
standards, books 3255
storage 28
structure activity relationships 4941-4942
books 4938
models 4944
reviews 4944
toxicity
assessment 8051
determination 1826
Israel 8117
public opinion 1233
soil 1826
transformation, estimation 1802
uptake
adjuvants 44
models 6429
reviews 6428
surfactants 6429
usage 42, 2456, 3257, 3263, 6415
Africa 2458
Asia 5937, 7216
Australia 5659
Bangladesh 6437
books 5659, 8036
California 7229, 7231
Denmark 1236, 5685-5687
determination 8188
developing countries 7216
environmental impact 2454
France 4092
Germany 4074
Japan 5677, 6417
Malaysia 5669, 7228
Nigeria 1960
rice 5937
Sweden 8062
UK 3262
vegetables 4092
Zimbabwe 8083
volatilization 8049-8050, 8052
models 5680, 7210
*Phaseolus vulgaris* 8053, 8085
reviews 7210
soil 7210, 8053, 8085
waste water, treatment 3273
***Petroselinum crispum*** (*see* Parsley)

***Petunia hybrida***
arabis mosaic nepovirus
enzymes 1730
replication 1731
*Phytophthora nicotianae* var. *parasitica*, Iran 1734
*Phytophthora palmivora*, Iran 1734
***Pezicula alba***, apples, storage 2220
***Pezicula cinnamomea***
*Quercus robur*
decline 7093
Germany 7093
*Quercus rubra*
biology 4800
morphology 4800
***Pezicula livida***, *Chamaecyparis obtusa*, Japan 4851
***Pezicula malicorticis***
apples
antagonists 1047
biological control 1047
biology 1577
control 463, 1046
hosts 463
postharvest decay 1047
storage 1046, 5392
symptoms 463
Washington 463, 1577
***Phacidiopycnis pyre***
pears
Himachal Pradesh 4619
storage 4619
***Phacidium infestans***
*Pinus*
high altitude 3152
Norway 3152
*Pinus sylvestris*
epidemiology 3988
stand density 3988
***Phaeochora steinheilii***, IMI descriptions 1903
***Phaeoisariopsis***, taxonomy 5042
***Phaeoisariopsis griseola***
*Phaseolus vulgaris*
Africa 1492
control 946, 5261-5262, 6780, 8445
genotype mixtures 1492
intercropping 3685
Kenya 3685
Rwanda 946
São Paulo 5261-5262, 6780
seeds 946, 5261
Uttar Pradesh 8236
varietal reactions 6780, 8446
***Phaeoisariopsis robiniae***, *Robinia pseudoacacia*, Korea Republic 8759
***Phaeolus schweinitzii***
*Picea sitchensis*
resistance 2397
stilbenes 2397
***Phaeoramularia***, taxonomy 5042
***Phaeoramularia coalescens***, taxonomy, new combination 7361
***Phaeoramularia collomiae***, taxonomy, new species 7361
***Phaeoseptoria eucalypti***, *Eucalyptus*, taxonomy 1697
***Phaeosphaeria maydis***
maize
São Paulo 6698
varietal reactions 6698
***Phaeosphaeria nodorum***, IMI distribution maps 3389
**Phaeosphaeriaceae**, North America 765
***Phaeostalagmus rossicus***
*Carex rostrata*
Russia 1756
taxonomy 1756
***Phakopsora***, Leguminosae, taxonomy 362
***Phakopsora apludae***, Maharashtra 3397
***Phakopsora londitiae***, bamboos, Philippines 4890
***Phakopsora meibomiae***, soyabeans, taxonomy 362
***Phakopsora pachyrhizi***
*Glycine tomentella*
Australia 2103
genetics 2103
varietal reactions 2103
soyabeans
breeding 4467

***Phakopsora pachyrhizi*** *cont.*
soyabeans *cont.*
epidemiology 4467
genetics 5249
models 4468
races 4467
Taiwan 4467
taxonomy 362
yield losses 4468
***Phakopsora ziziphi-vulgaris***
*Ziziphus sativa*
spore germination 7804
survival 7804
***Phalaenopsis***
*Nectria haematococca*
Japan 8818
pathogenicity 8818
tomato spotted wilt tospovirus, California 1739
***Phalaris minor***
*Clavibacter tritici*, mixed infections 3509
*Sclerophthora macrospora*, mixed infections 3509
***Phanerochaete chrysosporium***
biochemistry, enzymes 4188
soil, growth 5035
***Phanerochaete velutina***
biochemistry
enzymes 1869, 1882
Nematoda 1882
***Phascolomyces articulosus***, *Piptocephalis virginiana*, hyperparasitism 3359, 4207, 6517
***Phaseolus***
*Erysiphe polygoni*
composts 6609
control 6609
*Pythium*, biological control 6783
***Phaseolus acutifolius***, *Xanthomonas campestris* pv. *phaseoli*, varietal reactions 2799
***Phaseolus calcaratus*** *(see Vigna umbellata)*
***Phaseolus coccineus***
seedborne fungi
Poland 4478
symptoms 4478
***Phaseolus lunatus***
*Macrophomina phaseolina*
Karnataka 8444
seeds 8444
*Rhizoctonia solani*
testing 5240
varietal reactions 5240
tobacco ringspot nepovirus, pathogenesis-related proteins 4474
viruses, reviews 2100
***Phaseolus umbellatus*** *(see Vigna umbellata)*
***Phaseolus vulgaris***
*Alternaria*
control 6780
São Paulo 6780
seeds 2798
varietal reactions 6780
*Alternaria alternata*
Colombia 2794
control 7610
Ontario 7610
bacteria, Hungary 3691
bean common mosaic potyvirus
Cuba 6008
pathogenicity 2789
screening 2117
Spain 2790
strains 211, 2789
taxonomy 211
varietal reactions 1490
yield losses 6008
bean golden mosaic bigeminivirus, proteins 8438
bean yellow mosaic potyvirus, Spain 2790, 6007
biochemistry, pathogenesis-related proteins 1497
*Botrytis cinerea*
antagonists 5829
control 2121, 3295, 6446
clover yellow vein potyvirus
hosts 8436
Japan 8436
*Colletotrichum lindemuthianum*
breeding 6778, 6785
***Phaseolus vulgaris*** *cont.*
*Colletotrichum lindemuthianum cont.*
control 946, 5261, 6780
cytochemistry 1491
elicitors 2120, 7608
host parasite relationships 1491, 2120, 2793
molecular genetics 2120, 7608
Ontario 6785
population dynamics 6785
races 367, 2793
reviews 2124
Rwanda 946
São Paulo 367, 5261, 6778, 6780
seeds 946, 6785
varietal reactions 4476, 6780
*Corticium rolfsii*, biological control 2125, 3480
crinkle stunt, plant density 5257
cucumber mosaic cucumovirus
India 5256
Spain 2790
diseases
continuous cropping 5239
control 2118-2119, 4270, 5262
drought 6782
Mexico 6775, 6782
North Dakota 2119
resistance 5842
rotations 8443
Santa Catarina 6774
São Paulo 5262
seeds 6774
Spain 4270
Turkey 366
varietal reactions 6775, 8443
yield losses 6775
disorders
aetiology 3692
relative humidity 3692
French bean crinkle stunt virus
symptoms 8437
yield losses 8437
fungi
glyphosate 3423
resistance 5258
roots 3423
fungicide residues
detection 2792
seeds 2792
*Fusarium oxysporum* f.sp. *phaseoli*
Colombia 6777
Colorado 6777
control 5259
enzymes 7609
Guangxi 5259
phytoalexins 7609
races 6777
South Carolina 6777
*Fusarium solani*, soil amendments 8440
*Fusarium solani* f.sp. *phaseoli*
insects 2797
Malawi 2797
phytoalexins 215
*Glomus*, mycorrhizas, Nematoda 5723
*Glomus intraradices*
mycorrhizas
defence mechanisms 3340
phosphorus 3340
*Macrophomina phaseolina*
control 6786
Mexico 6786
Myanmar 2141
seeds 6786
variation 2141
varietal reactions 2795
manganese, toxicity, Florida 4278
*Monosporascus cannonballus*, pathogenicity 8602
mycorrhizas, nitrogen 2503
ozone
biochemistry 1496
histology 6010
yield losses 1496
pesticides
toxicity 7214
volatilization 8053, 8085
*Phaeoisariopsis griseola*
Africa 1492
control 946, 5261, 6780, 8445
genotype mixtures 1492
***Phaseolus vulgaris*** *cont.*
*Phaeoisariopsis griseola cont.*
intercropping 3685
Kenya 3685
Rwanda 946
São Paulo 5261, 6780
seeds 946, 5261
Uttar Pradesh 8236
varietal reactions 6780, 8446
*Phoma exigua*, Sikkim 8447
*Phoma exigua* var. *diversispora*
control 946
genetics 8448
Rwanda 946
seeds 946
*Pseudomonas putida*
agglutination 6788
molecular genetics 6788
*Pseudomonas syringae*
models 6009
molecular genetics 6787
pathogenicity 6787
sampling 6009
strains 6787
*Pseudomonas syringae* pv. *phaseolicola*
host parasite relationships 5265-5266
Hungary 3691
induced resistance 947
molecular genetics 5266
screening 2117
varietal reactions 3690
*Pseudomonas syringae* pv. *syringae*
molecular genetics 6789
pathogenicity 6789
*Pseudomonas syringae* pv. *tabaci*, host parasite relationships 5264
*Pythium aphanidermatum*
control 6781
plant residues 6781
*Pythium sylvaticum*
edaphic factors 3488
glyphosate 3488
isolates 3488
*Pythium ultimum*
edaphic factors 3488
glyphosate 3488
isolates 3488
red clover vein mosaic carlavirus
characteristics 209
Lithuania 209
*Rhizoctonia solani*
anastomosis groups 5989
control 6779, 6781, 6786
enzymes 6526
host parasite relationships 6526
Mexico 6786
Ohio 5989
plant residues 6781
seed treatment 2792, 6779
seeds 6786
testing 5240
varietal reactions 5240
virulence 5989
Zaire 5989
root rots
soil amendments 8441
soil water 6784
temperature 8441
varietal resistance 6784
*Sclerotinia sclerotiorum*
antagonists 2791
biological control 1494
control 2121
screening 3684
selection 8439
seedborne organisms, Honduras 3687
soybean dwarf luteovirus
Hokkaido 6776
mulching 6776
soybean mosaic potyvirus, genetics 6006
tobacco necrosis necrovirus, plant extracts 6005
*Uromyces appendiculatus*
appressoria 4477
biological control 5260
Brazil 4479
breeding 944, 3686
China 351
control 1493, 5261
differentiation 4479
epidemiology 2122

***Phaseolus vulgaris*** *cont.*
*Uromyces appendiculatus* cont.
genetics 8442
Honduras 3686
host parasite relationships 945
hypersensitivity 945
intercropping 2123
molecular genetics 4475
preservation 5263
races 4479, 5263
resistance 2796
São Paulo 5261
screening 7607
spore dispersal 2123
varietal reactions 351, 2122, 2796
viruses
Italy 3683
New Zealand 8423
reviews 2100
seeds 3683
yield losses 3683
*Xanthomonas campestris* pv. *phaseoli*
breeding 3688
control 369, 3689
environmental factors 8450
Hungary 3691
India 2805
inoculation 370
models 1495
photosynthesis 1495
Puerto Rico 2126
reviews 2127
screening 2126, 7607, 8449
seeds 369-370, 5267
varietal reactions 2799
***Phellinus ignarius***, grapes, control 2987
***Phellinus noxius***
coffee
control 7862
Karnataka 7862
*Hevea brasiliensis*
biological control 5524-5525
control 2371
Côte d'Ivoire 7902
Malaysia 2371
models 5521, 7902
tropical crops, characteristics 1305
***Phellinus pini***
*Pinus halepensis*, Italy 4834
*Pinus sylvestris*
Kazakhstan 4828
varietal reactions 4828
***Phellinus torulosus***, sexual reproduction 3411
***Phellinus tremulae***, *Populus tremula*, resistance 4808
***Phellinus weirii***
ecosystems, reviews 1778
forest trees
control 2390
stump removal 2390
*Pinus contorta*
control 2390
stump removal 2390
*Pseudotsuga menziesii*
control 2390
stump removal 2390
***Phellodon niger***, *Picea abies*, mycorrhizas 2499
**Phenolic compounds**
activity
*Botrytis allii* 5306
*Colletotrichum dematium* 5306
*Fusarium oxysporum* 5772
*Hypoxylon serpens* 4732
*Penicillium griseofulvum* 5194
**Phenylamides**
fungicide tolerance
Peronosporales 7240
*Phytophthora infestans* 6817, 8489
*Pseudoperonospora cubensis* 5376-5377
***N*-phenylanilines**
activity
*Botrytis cinerea* 4108
*Venturia inaequalis* 4108
*Venturia pirina* 4108
***N*-phenylcarbamates**, control, *Venturia pirina*, pears 1052
***N*-phenylformamidoximes**
activity
*Botrytis cinerea* 6446
*Phaseolus vulgaris* 3295
*Cercospora beticola* 6446
sugarbeet 3295
control, *Venturia pirina*, pears 1052
structure activity relationships 7255
**Phenylmercury acetate**
activity, *Rhizopus oryzae* 6116
control, *Rhizoctonia solani*, rough lemons 4670
seed treatment
maize 5850
rice 5850
wheat 5850
**Phenylmercury nitrate**, control, *Nectria galligena*, apples 6148
**2-Phenylphenol**
control, kiwifruits, storage decay 3808
fungicide residues, oranges 8653
**Phenylpyrroles**, seed treatment, cereals 8267
***Phialocephala***, Himachal Pradesh 7356
***Phialocephala dimorphospora***
*Quercus robur*
decline 7093
Germany 7093
taxonomy, conidia 1923
wood, laboratory tests 2377
***Phialophora***
interactions, *Heterobasidion annosum*, *Picea abies* 603
molecular genetics, DNA probes 1931
***Phialophora cinerescens***
carnations
biological control 616
Latvia 616
***Phialophora malorum***
pears
inoculum 2965
postharvest decay 2965
spread 2965
**Philippines**
*Albizia falcataria*, *Corticium salmonicolor* 5546
bamboos, diseases 4890
cocoa, *Oncobasidium theobromae* 7872
forest trees, diseases 2372
mangoes, *Glomerella cingulata* 4680
mycorrhizas, inoculum 7280
rice
diseases 3631
*Magnaporthe grisea* 7526
*Pyricularia oryzae* 5958
*Rhizoctonia solani* 3651
rice grassy stunt tenuivirus 3635
rice tungro virus 5948
*Xanthomonas oryzae* pv. *oryzae* 920, 1463, 7526, 7558
trees, diseases 2372
weeds, *Pyricularia oryzae* 5958
***Phillyrea***
*Pseudomonas syringae* pv. *savastanoi*
IAA 6410
strains 6410
***Phlebia gigantea***, control, trees, root rots 580
***Phlebia radiata***, biochemistry, enzymes 1869
***Phlebia rufa***, biochemistry, enzymes 1869
***Phloeospora bullata***, bamboos, India 3403
***Phloeospora maculans***, mulberries, Kyushu 6954
***Phloeosporella flavio-moralis***
*Eugenia lutescens*
Brazil 1924
taxonomy 1924
***Phloeosporella kitajimae***
*Eugenia dysenterica*
Brazil 5045
taxonomy 5045
***Phloeosporella muntingia***
*Muntingia*
India 7366
taxonomy 7366
***Phlox***
*Septoria divaricatae*
China 5574
control 5574
***Phlyctema***
*Sequoia sempervirens*
endophytes 7107
***Phlyctema*** *cont.*
*Sequoia sempervirens* cont.
USA 7107
***Phoenix canariensis***, diseases, Italy 7955
***Phoenix dactylifera*** (*see* Dates)
***Phoenix sylvestris***, *Asteroma frondicola*, India 3403
***Phoma***
hosts 2554
linseed, UK 8673
*Panicum repens*
flooding 5610
Florida 5610
potatoes
Assam 6045
control 6048
storage 5283, 6048
rape
control 4703
France 4703
rhubarb
North Carolina 2185
toxins 2185
rice
control 2735
Honshu 5210
Spain 2554
sugarcane, taxonomy 3913
sunflowers
control 4708
Yugoslavia 4708
tomatoes, seeds 4579
***Phoma asparagi***
asparagus
China 5321
control 429, 5321
epidemiology 5321
pathogenicity 6087
***Phoma bakeriana***, *in vitro* culture, environmental factors 2148
***Phoma betae*** (*see Pleospora betae*)
***Phoma boltshauseri***, taxonomy 8172
***Phoma cava***, *Quercus*, Italy 4802
***Phoma exigua***
*Cyclamen persicum*
Poland 6347
seeds 6347
*Phaseolus vulgaris*, Sikkim 8447
potatoes
antagonists 2822
control 1514
Russia 1514
storage 1514
***Phoma exigua*** **var.** ***diversispora***
*Phaseolus vulgaris*
control 946
genetics 8448
Rwanda 946
seeds 946
***Phoma exigua*** **var.** ***exigua***, *Zingiber officinale*, India 7979
***Phoma exigua*** **var.** ***foveata***
potatoes
control 8486
Hungary 1515
tissue culture 6031
UK 6031, 8486
varietal reactions 1515
***Phoma exigua*** **var.** ***heteromorpha***
*Nerium oleander*, Italy 2405
toxins 5025
***Phoma exigua*** **var.** ***linicola***, flax, genetics 7077
***Phoma glomerata***
faba beans
Hungary 8434
seeds 8434
***Phoma herbarum***
faba beans
Hungary 8434
seeds 8434
potatoes, Assam 6045
***Phoma humicola***, laboratory tests, heavy metals 1871
***Phoma lingam*** (*see Leptosphaeria maculans*)
***Phoma macrostroma***, *Populus deltoides*, India 3984
***Phoma matteuccicola***, *Matteuccia struthiopteris*, taxonomy 1752

***Phoma medicaginis***
lucerne
biological control 2615
phytoalexins 4456
tomatoes, biological control 2615
***Phoma medicaginis* var. *macrospora*,** taxonomy 8172
***Phoma medicaginis* var. *medicaginis***
lucerne
infection 2767
pathogenicity 2767
***Phoma medicaginis* var. *pinodella***
faba beans
Hungary 8434
seeds 7605, 8434
peas
control 7615
Netherlands 6792
reviews 6794
rotations 3472
Saskatchewan 3472
tillage 3472
***Phoma medicaginis* var. *sojae*,** soyabeans, seed testing 5997
***Phoma microspora***
groundnuts
physiology 7838
varietal reactions 7840
***Phoma nebulosa*,** hyperparasitism, *Sclerotinia sclerotiorum* 7016
***Phoma nivea*, *Dalbergia sissoo*,** Uttar Pradesh 4813
***Phoma oleracea* var. *helianthi-tuberosi*,** sunflowers, control 1627
***Phoma solani*,** Himachal Pradesh 5778
***Phoma sorghina***
chicory, symptoms 7672
*Phytolacca americana*
biological control 1766
toxins 1766
rice
Assam 5780
control 6741
São Paulo 6741
seeds 6741
symptoms 3648
varietal reactions 7556
sorghum
Rajasthan 1447
seeds 1447, 3611
varietal reactions 3611
***Phoma terrestris***
onions
soil water 2863
varietal reactions 2863
yield losses 2863
preservation 3415
***Phomopsis***
apples
environmental factors 6925
varietal reactions 6925
asparagus
control 7671
epidemiology 7670
Honshu 7670-7671
avocados
control 8662
New Zealand 512, 8662
postharvest decay 8662
*Cavendishia pubescens*
Colombia 1757
toxins 1757
forest trees
Chile 7085
cultural methods 7085
*Juniperus*, varietal reactions 3122
kiwifruits, storage 3002
pawpaws, postharvest decay 7806
soyabeans
epidemiology 5993
seeds 5993
sunflowers
breeding 1630
control 3049, 3051, 4708
forecasting 3050
France 3048-3049
taxonomy 2306
Yugoslavia 2306, 3051, 4708
*Xanthium italicum*
taxonomy 2306
Yugoslavia 2306
***Phomopsis abutilonis*, *Abutilon*,** Madhya Pradesh 5779
***Phomopsis amygdali***
peaches
control 4631
Italy 4631
spinach
fusicoccin 5318
membranes 5318
toxins 8253
***Phomopsis asparagi***
asparagus
environmental factors 1545
survival 1545
***Phomopsis cinerascens***
plums
California 2973
wind damage 2973
***Phomopsis diospyri*,** persimmons, Republic of Georgia 4686
***Phomopsis fabae*,** faba beans, varietal reactions 1488
***Phomopsis heveae*, *Hevea brasiliensis*,** seeds 2369
***Phomopsis longicolla***
soyabeans
breeding 5248
freezing 358
immunodiagnosis 2783
Iowa 358
latent infections 2783
seeds 358, 365, 5248
***Phomopsis longiparaphysata***
grapes
Taiwan 2257
taxonomy 2257
***Phomopsis medax*, *Albizia lebbek*,** Madhya Pradesh 5779
***Phomopsis occulata***
*Sequoia sempervirens*
endophytes 7107
USA 7107
***Phomopsis perseae***
avocados
control 2282
South Africa 2282
***Phomopsis phaseoli***
soyabeans
immunodiagnosis 2783
latent infections 2783
***Phomopsis pterocarpi*, *Pterospermum acerifolium*,** Madhya Pradesh 1704
***Phomopsis sclerotioides***
cucumbers, control 7429
*Streptomyces griseoviridis*, hyperparasitism 4175
***Phomopsis tersa***
passion fruits
Mauritius 2275
postharvest decay 2275
***Phomopsis vexans***
aubergines
enzymes 1018
reviews 6115
virulence 1018
***Phomopsis viticola***
grapes
Australia 482
control 482, 4651
Greece 4651
***Phormium tenax*, *Xanthomonas campestris* pv. *phormiicola*,** toxins 8815
**Phosphamidon,** control, *Aspergillus niger*, groundnuts 3904
**Phosphates,** activity, *Phytophthora* 733
**Phosphine,** control, wheat, storage decay 837
**Phosphonates**
activity
*Phytophthora* 733
*Phytophthora cinnamomi*, *Leucadendron* 6330
antifungal properties 2466
**Phosphonic acid,** control, *Peronospora parasitica*, cauliflowers 3753
**Phosphonothionates,** antifungal properties 7241
**Phosphorus,** activity, *Xanthomonas campestris* pv. *betlicola*, *Piper betle* 4009
***Photinia fraseri***
*Entomosporium mespili*
control 3996
Georgia 3996
***Photinia glabra*, *Entomosporium mespili*,** phytoalexins 8809
**Phoxim,** control, *Erysiphe graminis*, wheat 2641
**Phthalide**
control, *Pyricularia oryzae*, rice 4423
uptake, rice 8087
***Phyllachora acaciae* var. *acaciae*,** IMI descriptions 1903
***Phyllachora bauhiniae* var. *bauhiniae*,** IMI descriptions 1903
***Phyllachora dolichogena* subsp. *dolichogena*,** IMI descriptions 1903
***Phyllachora euryae*, *Schima wallichii*,** Sikkim 8769
***Phyllachora maydis***
maize
assessment 1425
genetics 3603
***Phyllachora nitens* subsp. *galactiae*,** IMI descriptions 1903
***Phyllachora puncta* subsp. *dalbergiicola*,** IMI descriptions 1903
***Phyllachora shiriana*,** bamboos, Philippines 4890
***Phyllactinia verruculosa*, *Indigofera scabra*,** Yunnan 5786
***Phyllanthus emblica*,** postharvest decay, Jammu and Kashmir 6218
**Phylloplane fungi**
antagonism
*Alternaria brassicae* 1281
*Pyrenophora graminea* 1281
interactions, reviews 1779
peaches, fungicides 2242
sugarcane 3079
***Phyllosticta***
*Codiaeum variegatum*, conidia 7340
forest trees
Chile 7085
cultural methods 7085
potatoes, Assam 6045
soyabeans, Russia 2108
sugarcane, taxonomy 3913
***Phyllosticta adjuncta***
*Populus*
Himachal Pradesh 7919
Uttar Pradesh 4809
***Phyllosticta arecae*,** arecanuts, phenolic compounds 1087
***Phyllosticta azadirachis*,** Himachal Pradesh 5778
***Phyllosticta circumscissa*,** Himachal Pradesh 5778
***Phyllosticta eucalyptorum***
*Eucalyptus grandis*
Brazil 5535
taxonomy 5535
***Phyllosticta glycyrrhizae***
liquorice
Himachal Pradesh 7975
taxonomy 7975
***Phyllosticta penicillariae*, *Pennisetum americanum*,** genetic resources 2070
***Phymatotrichopsis omnivora***
cotton, reviews 2358
soil
sclerotia 6541
soil amendments 6541
*Trichoderma*, antagonism 6541
***Physalis alkekengi*,** tobacco mosaic tobamovirus, Japan 5570
***Physalis angulata***
*Cercospora nicotianae*
alternative hosts 4763
Zaire 4763
***Physalis floridana*,** beet western yellows luteovirus, immunodiagnosis 5817
***Physalis ixocarpa***
*Entyloma australe*
control 6909
Mexico 6908-6909
physalis mottle virus
Louisiana 8604
transmission 8604
weeds 8604

**Physalis mottle virus**
*Physalis ixocarpa*
Louisiana 8604
transmission 8604
weeds 8604
*Physalis pubescens*
Louisiana 8604
reservoir hosts 8604
***Physalis pubescens***
*Cercospora nicotianae*
alternative hosts 4763
Zaire 4763
physalis mottle virus
Louisiana 8604
reservoir hosts 8604
***Physalospora,*** pears, epidemiology 5398
***Physalospora piricola***
pears
phenology 6933
spore dispersal 6933
***Physalospora tucumanensis*** *(see Glomerella tucumanensis)*
***Physopella,*** Leguminosae, taxonomy 362
***Physostegia virginiana***
mycoplasma-like organisms
membranes 4264
polysaccharides 4264
ultrastructure 4264
**Phytoalexin-84,** control, *Glomerella cingulata,* mangoes 5449
**Phytoalexins**
antifungal properties 8252
*Arabidopsis thaliana* 4063
avocados 7003
cabbages 5315
carnations 5581
*Cassia obtusifolia* 7994
*Cephalocereus senilus* 6352
chickpeas 215, 6020-6021
cotton 3957-3958, 6277, 8740
Cruciferae 4551
elicitors 814
faba beans 7603, 8432
grapes 5508, 6182
groundnuts 7827
*Hyoscyamus muticus* 7136
lemons 4676
lucerne 5235, 8417
oats 6689-6690
*Ornithopus sativus* 8422
parsley 4885
peas 215, 4481
pecans 2288-2289
*Phaseolus vulgaris* 215, 5265, 7608-7609
*Photinia glabra* 8809
pigeon peas 4498
*Pinus sylvestris* 4840
potatoes 215, 3722, 3728, 8487
production 4231
reviews 6597
*Rhaphiolepsis umbellata* 7129
rice 2751, 5940, 6732
sorghum 891, 3622, 6708, 8357
soyabeans 653, 2110, 5253, 6770, 6773
sugarcane 2331
tobacco 4764, 5508, 8251, 8734
*Trifolium repens* 8251
turnips 4551
*Vigna radiata* 969
woody plants 1145
***Phytolacca americana***
*Phoma sorghina*
biological control 1766
toxins 1766
***Phytomonas***
cellular biology 219
coconuts
pathogenicity 4696
RNA 4696
Suriname 1636
oil palms
pathogenicity 4696
RNA 4696
***Phytophthora***
*Capsicum,* intercropping 2202
chicory, symptoms 7672
chrysanthemums, control 3185
citrus
control 4662
reviews 6993
***Phytophthora*** *cont.*
cocoa
biology 558
Brazil 550
control 550, 558
Papua New Guinea 558
reviews 2341
coconuts
Hawaii 527
Karnataka 1635
crops
identification 810
Turkey 810
forest trees
Chile 7085
cultural methods 7085
reviews 1688
taxonomy 5040
genetics, chromosomes 731
*Hevea brasiliensis*
control 1144
Sri Lanka 578
symptoms 1144
horticultural crops, Denmark 5839
immunodiagnosis 140, 3421
laboratory tests, flubenzimine 2465
molecular genetics, DNA fingerprinting 5011
ornamental plants, suppressive soils 6328
pawpaws
control 8660
Tamil Nadu 8660
*Piper nigrum*
Indonesia 624
isolates 624
mating types 624
pome fruits, Switzerland 2930
raspberries
control 473
Norway 473
stone fruits, Switzerland 2930
taxonomy
morphology 4227
Taiwan 763
ultrastructure, zoospores 4227
***Phytophthora arecae***
arecanuts
control 3043
environmental factors 3043
forecasting 3043
***Phytophthora boehmeriae,*** cotton, Shanxi 6280
***Phytophthora cactorum***
apples
biological control 2957, 6922
control 3823, 6922
interactions 2938
quality 3822
replant disease 2938
storage 3822
fruit trees, Switzerland 2930
pecans
control 4694
Georgia 4694
safflower
Iran 7822
seeds 7822
spore germination, nutrients 3362
strawberries
forecasting 7772
Ohio 7772
selection 6172
Sweden 1351
***Phytophthora cambivora***
almonds, screening 1086
apples
interactions 2938
replant disease 2938
chestnuts, breeding 6224
fruit trees, Switzerland 2930
***Phytophthora capsici***
*Capsicum*
breeding 5345, 8580
control 7700-7701, 8581
cultural methods 2203
environmental factors 7705
genetics 440, 2907, 5345, 8580
host parasite relationships 4285
Korea Republic 1021, 7703
mating types 7703
Nematoda 5821
***Phytophthora capsici*** *cont.*
*Capsicum cont.*
oospores 7705
physiology 7699
population dynamics 1020
screening 6125
Shaanxi 2203
soil water 1020, 5347
susceptibility 8582
varietal reactions 1021, 1557
Xinjiang 8581
cucumbers, Guangdong 2211
laboratory tests, plant extracts 2483
*Macadamia,* decline 7813
molecular genetics
DNA 105
genetic transformation 7390
phylogeny 105
*Pseudomonas,* antagonism 3246
soil
population dynamics 1020
soil water 1020
squashes, Chile 2214
taxonomy
esterases 8176
proteins 8176
***Phytophthora cinnamomi***
apples
interactions 2938
replant disease 2938
avocados
antagonists 5455
biological control 2285
calcium 2278
control 2277, 6220, 7011
fertilizers 2284
insects 7011
Mexico 6220, 7011
reviews 7008
rootstocks 2286
screening 5452
South Africa 2276-2277, 2283
suppressive soils 2276, 2283
testing 2286
varietal reactions 2278
*Chamaecyparis lawsoniana*
nutrient solutions 7948
spread 7948
zoospores 7948
chestnuts, breeding 6224
ecosystems, reviews 1778
*Erica gracilis*
irrigation water 3174
spread 3174
*Eucalyptus*
control 5534
reviews 5534
Victoria 5534
*Eucalyptus marginata*
reviews 7908
Western Australia 7908
homothallism 3360
*Jacaranda acutifolia,* antagonists 5455
*Leucadendron,* control 6330
lupins
antagonists 5455
soil water 4461
molecular genetics
DNA 105
genetic transformation 7390
phylogeny 105
RNA 7317
*Ocotea bullata*
environmental factors 1702
flooding 1157
South Africa 1702
*Persea indica,* antagonists 5455
plants
mammals 6513
Victoria 6513
*Protea,* biological control 3997
*Quercus ilex*
decline 3969
Portugal 3969
Spain 3969
*Quercus palustris,* resistance 2385
*Quercus rubra*
France 2382-2383
host parasite relationships 2383
inoculation 2385
spread 2382

***Phytophthora cinnamomi*** *cont.*
*Quercus rubra cont.*
susceptibility 2385
*Quercus suber*
decline 3969
Portugal 3969
Spain 3969
*Rhododendron*
control 1176
weeds 1176
*Rhododendron obtusum*, biological control 8810
soil
estimation 8166
Shanghai 1896
soil bacteria, antagonism 5455
sporangia
flagella 732
microtubules 732
taxonomy
esterases 8176
proteins 8176
*Taxus*, Ohio 7128
***Phytophthora citricola***
fruit trees, Switzerland 2930
hops
Germany 7160
pathogenicity 7160
root rots 7160
molecular genetics, genetic transformation 7390
raspberries
Chile 8626
diagnosis 2978
Germany 2978
pathogenicity 7762
***Phytophthora citrophthora***
*Anthurium andreanum*, São Paulo 4005
lemons, seasonal variation 8652
molecular genetics
DNA 105
genetic transformation 7390
phylogeny 105
raspberries, Chile 8626
rough lemons
seasonal variation 8652
sporulation 1603
temperature 1603
*Sequoiadendron giganteum*, California 7947
sour oranges
seasonal variation 8652
sporulation 1603
temperature 1603
***Phytophthora clandestina***
*Trifolium subterraneum*
isolation 8421
Victoria 8421
***Phytophthora colocasiae***
*Colocasia esculenta*
control 992
reviews 6836
varietal reactions 992, 6835
yield losses 6835
***Phytophthora cryptogea***
asparagus, screening 431
biochemistry, elicitors 7320
*Gerbera jamesonii*, Japan 7963
kiwifruits
roots 4655
waterlogging 4655
laboratory tests
metal ions 8148
silver 8148
radishes
elicitors 3467
induced resistance 3467
tobacco
elicitors 3467
host parasite relationships 7065
induced resistance 3467
proteins 7065
turnips
elicitors 3467
induced resistance 3467
***Phytophthora drechsleri***
cassava
Brazil 6065
Colombia 6065
integrated control 6065
***Phytophthora drechsleri*** *cont.*
cucumbers
control 7720
Guangdong 2211
Iran 7720
Cucurbitaceae, reservoir hosts 1562
genetics, mating types 5743
melons, reservoir hosts 1562
*Robinia pseudoacacia*, Iran 1706
safflower
Iran 7822
seeds 7822
taxonomy
esterases 8176
proteins 8176
tobacco
host parasite relationships 8731
proteins 8731
***Phytophthora drechsleri* f.sp. *cajani***
pigeon peas
biochemistry 2143
control 2811
reviews 964
screening 8463
varietal reactions 2143
***Phytophthora erythroseptica***
laboratory tests
phosphates 733
phosphonates 733
raspberries, breeding 6166
***Phytophthora fragariae***
raspberries
control 6167
France 6167
strawberries
control 7769
North America 7769
roots 7773
spread 6951
varietal reactions 7773
***Phytophthora fragariae* var. *fragariae***, molecular genetics, restriction fragment length polymorphism 4218
***Phytophthora fragariae* var. *rubi***
molecular genetics, restriction fragment length polymorphism 4218
raspberries
composts 7762
diagnosis 2978
Europe 7763
Germany 2978
North America 7763
pathogenicity 7762
rotations 7762
taxonomy 4218, 7763
***Phytophthora infestans***
*Capsicum*
pathogenicity 7681
Taiwan 7681
genetics, isoenzymes 1877
interspecific hybridization 6519
laboratory tests
dimethomorph 7252
hydantoins 3289
phosphates 733
phosphonates 733
plant extracts 692
Mexico, DNA 7321
molecular genetics
DNA 1283, 7321
gene expression 734
genetic analysis 1283
genetic transformation 7319
isoenzymes 3361
*Piper nigrum*, soil treatment 4013
potatoes
assessment 976
biochemistry 4520
breeding 4509, 7641
British Columbia 6051
control 398, 975, 978, 1511, 2158-2159, 2838, 3716, 3718, 4521-4523, 4525, 6050, 6053-6054, 6450, 6818, 6820, 7642-7645, 8491
elicitors 2160, 3720, 8487
enzymes 6816
fertilizers 979, 1503, 4522
forecasting 1510, 3717, 3719, 7647
fungicide tolerance 399, 1511, 2839-2841, 3716, 6051, 6817, 8489
***Phytophthora infestans*** *cont.*
potatoes *cont.*
genetics 2834
Germany 134, 2841, 3719, 5292
Hokkaido 6817
host parasite relationships 2160, 2835, 4520, 6816, 8487
human population 2833
hypersensitivity 3720, 7646
*in vitro* culture 4523
infection 4521
Irish Republic 2833, 7642
Israel 399
Japan 8488
light 6819
mating types 8488
Mexico 231, 2156, 3715
models 134, 137, 1510
molecular genetics 977, 4519, 4524
morphology 8488
New York 3715, 3717
Pakistan 7633
pathogenesis-related proteins 3714, 4519
pathogenicity 3715
population dynamics 1512, 5292
population genetics 231
races 2156, 3721
remote sensing 7424
reviews 6052
rotations 3713
Russia 398, 2159
selection 5291
spread 8490
storage 1503, 1509
survival 399
Sweden 975, 1352, 7643, 7645
Switzerland 137
tissue culture 5291
toxins 6821
UK 2837, 6818, 8489
USSR 1512, 2158
Uttar Pradesh 6822
varietal reactions 1509, 2836-2837, 3715, 6819, 6821-6822
Venezuela 3721
Washington 6051
*Solanum*
Mexico 2156-2157
races 2156
resistance 2157
*Solanum laciniatum*, culture media 8638
*Solanum nigrum*
pathogenicity 7681
Taiwan 7681
tobacco, pathogenesis-related proteins 4765
tomatoes
biological control 7683
breeding 8556
composts 6609
control 6451, 6609, 6863, 6872
cytology 6863
environmental factors 3772
host parasite relationships 4285
Mexico 231, 6872
models 8566
pathogenicity 7681
population genetics 231
symptoms 6856
Taiwan 7681
Yugoslavia 8556
zoospores, ion transport 7315
***Phytophthora katsuae***, coconuts, Jamaica 5468
***Phytophthora megakarya***
molecular genetics
DNA 105
phylogeny 105
***Phytophthora megasperma***
fruit trees, Switzerland 2930
*Gliocladium virens*, antagonism 5000
molecular genetics, nucleotide sequences 4181
soyabeans, resistance 2101
***Phytophthora megasperma* f.sp. *glycinea***
molecular genetics
DNA probes 363
gene expression 734
isolates 363
RNA 7317

***Phytophthora megasperma* f.sp. *glycinea*** *cont.*
parsley, elicitors 7155
rice, elicitors 5207
soyabeans
adhesion 4469
fungicide tolerance 359
genetics 360, 1481, 2104, 3675, 5247
host parasite relationships 4469
varietal reactions 1480
tobacco, enzymes 4766
tomatoes, elicitors 4588
***Phytophthora megasperma* f.sp. *medicaginis***
chickpeas, biological control 6800
lucerne
phytoalexins 4456
weeds 7580
Wyoming 7580
***Phytophthora megasperma* var. *sojae*,**
asparagus, screening 431
***Phytophthora melonis***
cucumbers
postharvest decay 6895-6896
Shangdong 6904
varietal reactions 6904
***Phytophthora mexicana*,** laboratory tests, disinfectants 2548, 4107
***Phytophthora mirabilis***
laboratory tests
phosphates 733
phosphonates 733
***Phytophthora nicotianae***
*Capsicum*, Uttar Pradesh 8236
*Gypsophila paniculata*, South Africa 7973
taxonomy 5044
esterases 8176
proteins 8176
***Phytophthora nicotianae* var. *nicotianae***
aubergines, control 8571
soil, control 5031
tobacco
breeding 7884
control 8715
Cuba 3107
distribution 7068
fungicide tolerance 3107
host parasite relationships 4285, 4768
induced mutations 7066
infection 4768
selection 7066
strains 7069
Taiwan 5492
ultrastructure 4768
varietal reactions 7068, 8715
tomatoes
biological control 6608
hydroponics 6608
immune serum 1012
immunodiagnosis 1012
***Phytophthora nicotianae* var. *parasitica***
apples
interactions 2938
replant disease 2938
aubergines, control 3763
citrus
irrigation 3874
rootstocks 6209
varietal reactions 6209
grapefruits
Florida 7798
models 7798
phenology 7798
*Gypsophila paniculata*
control 5576
Japan 5576
*Hibiscus rosa-sinensis*
hydroponics 6331
temperature 6331
interspecific hybridization 6519
laboratory tests
metal ions 8148
metalaxyl 7247
plant oils 8119
silver 8148
lemons, seasonal variation 8652
*Lilium*, Taiwan 7140
oranges
Florida 6986
soil amendments 6986
passion fruits, Zimbabwe 4657
***Phytophthora nicotianae* var. *parasitica*** *cont.*
*Petunia hybrida*, Iran 1734
*Pseudomonas*, antagonism 3246
radishes
elicitors 3467
induced resistance 3467
*Ricinus communis*, control 2326
*Robinia pseudoacacia*, Iran 1706
rough lemons
seasonal variation 8652
sporulation 1603
temperature 1603
*Saintpaulia ionantha*
control 3187
disinfectants 3187
São Paulo 4004
*Schlumbergera truncata*, varietal reactions 7974
sesame
biological control 7844
control 8696
induced mutations 7036
Nematoda 5821
screening 7036
Sri Lanka 7036
soil
California 7682
edaphic factors 7682
Florida 7798
models 7798
phenology 7798
sour oranges
seasonal variation 8652
sporulation 1603
temperature 1603
tobacco
breeding 7061
control 4767
elicitors 3467, 7885
induced resistance 3467
phytoalexins 4764
selection 7067
strains 7069
tomatoes
California 7682
control 8557
edaphic factors 7682
salinity 6104
sporulation 4582
Uttar Pradesh 8557
varietal reactions 2895
turnips
elicitors 3467
induced resistance 3467
***Phytophthora palmivora***
cocoa
biological control 556, 7873
biology 558
breeding 551
control 552, 557-558, 1654, 7874
Formicidae 4752
Indonesia 551, 7874
Malaysia 4752
Papua New Guinea 558
reviews 556
Sierra Leone 1654
Solomon Islands 552
Western Samoa 7872
coconuts, Jamaica 5468
molecular genetics
DNA 105
phylogeny 105
pawpaws, reviews 7007
*Petunia hybrida*, Iran 1734
*Piper betle*
interactions 4881
Tamil Nadu 4882
taxonomy
esterases 8176
proteins 8176
weeds, biological control 7168
zoospores 6514
***Phytophthora porri***
*Allium*, isolates 3749
*Brassica oleracea*, isolates 3749
leeks, isolates 3749
***Phytophthora robinicola***
taxonomy
esterases 8176
proteins 8176
***Phytophthora sojae***
molecular genetics
fungicide tolerance 6515, 7322
races 6516
protoplasts 4470
soyabeans
host parasite relationships 5253
races 7593
spheroplasts 4470
***Phytophthora syringae***
apples, storage 2930
fruit trees, Switzerland 2930
pears, storage 2930
***Phytophthora vignae***
cowpeas, screening 6802
molecular genetics, RNA 7317
***Picea***
acid deposition, models 3148
*Inonotus tomentosus*
British Columbia 1717
infection 1717
*Lophophacidium hyperboreum*, China 6320
*Nectria radicicola*, physiology 1162
*Rhizosphaera kalkhoffii*
Minnesota 7944
morphology 7944
pathogenicity 7944
Wisconsin 7944
***Picea abies***
acid deposition, Germany 8767
acid fog, waxes 7121
acid rain, Germany 8803
air pollution
Austria 8802
damage 5550
Germany 1171, 5550
insect pests 605
*Amanita muscaria*
mycorrhizas
mannitol 7292
proteins 4966
Basidiomycotina, pathogenicity 1148
*Boletus luridus*, mycorrhizas, identification 3332
*Cylindrocarpon destructans*, mycorrhizal fungi 1166
decline
Austria 1719
cytokinins 3160
environmental factors 1718
enzymes 4846
forecasting 6318
France 7931
Germany 1167, 1170, 1693, 1718, 4846, 6318, 8766
gibberellins 3161
growth 1693
liming 1167
manganese 1170
ozone 7931
Switzerland 1693, 6302
diseases
control 2389
Latvia 2389
soil pH 7945
Switzerland 1716
fungi
Germany 8800
insects 3159
leaf fall 7119
Norway 3159
roots 8800
succession 3159
Sweden 7119
*Graphium*
insects 7118
Norway 7118
*Hebeloma crustuliniforme*, mycorrhizas, ontogeny 5705
*Herpotrichia juniperi*
natural regeneration 602
Switzerland 602
*Heterobasidion annosum*
bark 1168
Czechoslovakia 4827
decline 1167
detection 7943
France 603
Germany 1167
infection 1168

***Picea abies*** *cont.*
*Heterobasidion annosum cont.*
interactions 603
intersterility groups 4825
liming 1167
population dynamics 3989
resin acids 3157
resistance 3158
stilbenes 3157
Sweden 3989
vectors 4827
water stress 3158
*Hydnellum peckii*
mycorrhizas
chlamydospores 4137
morphology 4137
*Laccaria laccata*, mycorrhizas, diseases 1166
*Lactarius scrobiculatus*, mycorrhizas, morphology 5709
*Lophodermium piceae*
Europe 1169
morphology 1169
taxonomy 1169
mycorrhizas
Belgium 4964
carbohydrates 4135
metals 4964
Switzerland 5706
*Nectria radicicola*, Germany 7120
*Ophiostoma*
insects 7118
Norway 7118
ozone
Germany 1163
physiology 3163
potassium 3990
transpiration 2398
waxes 7121
*Paxillus involutus*, mycorrhizas, diseases 1166
*Phellodon niger*
mycorrhizas
chlamydospores 2499
morphology 2499
*Pisolithus tinctorius*, mycorrhizas, carbohydrates 2497
rhizosphere fungi, Germany 7120
root and butt rots, Russia 4844
root rots
Belarus 4845
environmental factors 4845
models 4845
*Russula ochroleuca*, mycorrhizas, morphology 6478
*Scleroderma citrinum*, mycorrhizas, identification 3332
stem rot
damage 8801
Germany 8801
sulfur dioxide
drought 4848
Germany 6321
proteins 4848
turbidity 595
*Trichoderma*, Germany 3125
*Trichoderma polysporum*
Germany 8799
pathogenicity 8799
*Tricholoma vaccinum*, mycorrhizas, identification 3332
***Picea engelmannii***
sulfur dioxide
California 594
susceptibility 594
***Picea glehnii***
*Racodium therryanum*
Hokkaido 6300
susceptibility 6300
***Picea jezoensis***
*Racodium therryanum*
Hokkaido 6300, 6319
seeds 6319
susceptibility 6300
***Picea mariana***
*Laccaria bicolor*
mycorrhizas
growth 8126
Ontario 8126
phosphorus 8123
survival 8126
***Picea mariana*** *cont.*
*Laccaria proxima*
mycorrhizas
growth 8126
Ontario 8126
survival 8126
*Thelephora terrestris*
mycorrhizas
growth 8126
Ontario 8126
survival 8126
tomato mosaic tobamovirus, spread 8784
*Wilcoxina mikolae* var. *mikolae*, mycorrhizas, morphology 2493
***Picea rubens***
acid deposition
models 3162
Virginia 3162
acid rain
growth 604
needles 3164
physiology 604
air pollution, needles 3164
decline
books 7942
USA 4847, 7942
Vermont 7904
ozone
growth 604
physiology 604
tomato mosaic tobamovirus, spread 8784
***Picea sitchensis***
*Heterobasidion annosum*
resistance 2397
stilbenes 2397
mycorrhizas
ecology 4128
enzymes 6481
Irish Republic 4128, 6481
*Phaeolus schweinitzii*
resistance 2397
stilbenes 2397
***Pichia guilliermondii***, control, citrus, postharvest decay 8651
***Pichia kluyveri***
citrus
Argentina 502
postharvest decay 502
**Pigeon pea sterility mosaic virus**
pigeon peas
India 8462
Nepal 2810
reviews 961
screening 8462
symptoms 2810
**Pigeon peas** (*Cajanus cajan*)
*Acaulospora rehmii*
mycorrhizas
growth 4975
phosphorus 4975
*Cercospora*, São Paulo 2812
control 3706
diseases
genetic resources 8244
India 2099
varietal reactions 2099
*Fusarium udum*
phytoalexins 4498
reviews 965
rotations 8465
seed germination 962
spore germination 963
varietal reactions 4498, 8465
*Gigaspora margarita*
mycorrhizas
growth 4975, 4984
nitrogen fixation 4984
phosphorus 4975
*Glomus fasciculatum*
mycorrhizas
nitrogen fixation 4150
phosphorus 4150
*Glomus mosseae*, mycorrhizas, phosphates 2529
Maharashtra 3706
mycorrhizas
growth 6483
pesticides 2529
phosphorus 6483
*Mycovellosiella cajani*
Kenya 8464
**Pigeon peas** *cont.*
*Mycovellosiella cajani cont.*
screening 8464
Sikkim 3707
*Phytophthora drechsleri* f.sp. *cajani*
biochemistry 2143
control 2811
reviews 964
screening 8463
varietal reactions 2143
pigeon pea sterility mosaic virus
India 8462
Nepal 2810
reviews 961
screening 8462
symptoms 2810
*Scutellospora verrucosa*
mycorrhizas
growth 4975
phosphorus 4975
seedborne fungi 3706
Trinidad and Tobago 4499
*Xanthomonas campestris* pv. *cajani*, varietal reactions 7622
***Pilidium acerinum***, *Eucalyptus grandis*, South Africa 1151
***Piloderma bicolor***, *Arbutus menziesii*, mycorrhizas 6504
***Pimelobacter***, antagonism, *Fusarium oxysporum* f.sp. *raphani* 5034
***Pimpinella monoica***
cucumber mosaic cucumovirus
characteristics 1754
Delhi 1754
**Pineapple wilt-associated virus**
pineapples
reviews 3026
vectors 3026
**Pineapples** (*Ananas comosus*)
copper deficiency, Rio de Janeiro 3027
diseases
control 509
nomenclature 6622
varietal reactions 509
*Fusarium*, Peru 4682
mycoplasma-like organisms
India 6973
research 6973
*Penicillium*, Peru 4682
pineapple wilt-associated virus
reviews 3026
vectors 3026
viruses
India 6973
research 6973
***Pinellia ternata***, *Corticium rolfsii*, biological control 1745
**Pines** (*see Pinus*)
***Pinus***
Aphyllophorales, Zimbabwe 2379
*Cenangium acicolum*, Liaoning 3155
*Cronartium fusiforme*
genetic polymorphism 6310
varietal reactions 3153
damping off, biological control 601
*Diplodia*, control 3129
diseases
Brazil 8753
control 4831
Louisiana 4831
planting stock 4831
fungi
Caribbean 7936
Cuba 7936
descriptions 3394
nurseries 8760
reviews 8760
South Africa 8760
*Fusarium oxysporum*
biological control 601
soil fungi 121
*Lophodermium*, China 8792
*Lophodermium guangxiense*, China 8792
*Lophodermium himalayense*, China 6317
*Lophodermium kumaunicum*, China 6317
*Lophodermium orientale*, China 8792
*Lophodermium pinastri*, Iran 1714
mycorrhizas
ecology 2501
Spain 2501
*Nectria radicicola*, physiology 1162

*Pinus* cont.
*Pestalotiopsis funerea*, biology 8793
*Pythium diclinum*
Algeria 7117
antagonists 7117
pathogenicity 7117
*Pythium tracheiphilum*
Algeria 7117
antagonists 7117
pathogenicity 7117
*Pythium ultimum*, biological control 601
*Rhizoctonia solani*, biological control 601
seedborne fungi, Uttar Pradesh 6312
*Suillus luteus*, mycorrhizas, Falkland Islands 8130
*Sydowia polyspora*
insects 1713
Kazakhstan 1713
***Pinus armandi***
*Lophodermium ellipticum*
China 6317
taxonomy 6317
*Soleella pinicola*
taxonomy 6314
Yunnan 6314
***Pinus banksiana***
*Endocronartium harknessii*, inoculation 6311
*Laccaria bicolor*
mycorrhizas
growth 8126
nitrogen 6470
Ontario 8126
phosphorus 8123
survival 8126
*Laccaria proxima*
mycorrhizas
growth 8126
Ontario 8126
survival 8126
*Pisolithus tinctorius*
mycorrhizas
genetics 4965
growth 4965
*Thelephora terrestris*
mycorrhizas
growth 8126
Ontario 8126
survival 8126
Uredinales
Alberta 2393
Northwest Territories 2393
*Wilcoxina*, mycorrhizas, morphology 2492
***Pinus caribaea***
*Ceratocystiopsis minima*
Cuba 7935
insects 7935
*Ceratocystis seticollis*
Cuba 7935
insects 7935
*Pisolithus tinctorius*
mycorrhizas
Congo 3325
growth 3325
inoculation 3325
*Rhizoctonia solani*, Karnataka 6303
***Pinus cembra,*** *Suillus*, mycorrhizas, isoenzymes 5704
***Pinus contorta***
*Armillaria mellea*, reservoir hosts 4035
*Armillaria ostoyae*
control 2390
reservoir hosts 4035
stump removal 2390
*Cronartium comandrae*
alternative hosts 8794
forecasting 8794
growth 8795
Montana 8795
survival 8795
Wyoming 8794-8795
diseases
high altitude 3152
Norway 3152
*Endocronartium harknessii*
Alberta 8785
breeding 7114
resistance 8785
symptoms 7114
***Pinus contorta*** cont.
*Ophiostoma clavigerum*
British Columbia 2392
glyphosphate 2392
terpenoids 8790
*Phellinus weirii*
control 2390
stump removal 2390
*Pisolithus tinctorius*
mycorrhizas
growth 1844
Oregon 1844
*Ramichloridium pini*, UK 5552
stain fungi
British Columbia 2392
glyphosphate 2392
*Tricholoma magnivelare*, mycorrhizas, physiology 4968
Uredinales
Alberta 2393
Northwest Territories 2393
***Pinus cubensis***
*Mycosphaerella dearnessii*
Cuba 7934
histopathology 7934
***Pinus densiflora***
*Crumenulopsis atropurpurea*
Georgia 1711
taxonomy 1711
*Suillus granulatus*, mycorrhizas, host specificity 6469
***Pinus echinata***
acid rain, carbohydrates 8798
ozone, carbohydrates 8798
***Pinus elliottii***
*Cronartium fusiforme*
enzymes 3150
Florida 6305
Georgia 4835, 6305
host parasite relationships 3150
selection 4835, 6304
soil types 7116
*Heterobasidion annosum*, estimation 4838
***Pinus gerardiana,*** seedborne fungi, enzymes 8791
***Pinus griffithii,*** *Cronartium ribicola*, genetics 3987
***Pinus halepensis***
mycorrhizas
calcium 696
culture 4138
*Phellinus pini*, Italy 4834
***Pinus hwangshanensis,*** *Cronartium*, alternative hosts 6315
***Pinus kesiya,*** *Rhizoctonia solani*, India 4829
***Pinus koraiensis***
*Armillaria obscura*, Russia 3154
*Cenangium acicolum*, Liaoning 2394
*Diplodia pinea*, Korea Republic 8759
*Valsa abietis*, Korea Republic 8759
***Pinus lambertiana***
*Cronartium ribicola*
California 8789
control 7112
genetics 8789
Oregon 8789
***Pinus massoniana,*** *Cronartium*, alternative hosts 6315
***Pinus monticola,*** *Ophiostoma clavigerum*, terpenoids 8790
***Pinus muricata***
*Mycosphaerella pini*
New South Wales 6306
susceptibility 6306
***Pinus nigra***
*Cronartium flaccidum*, infection 4841
*Diplodia pinea*
France 7938
Netherlands 7113
nutrients 7113
mycorrhizas
calcium 696
phosphorus 4972
soil fauna 5711
***Pinus patula***
mycorrhizas, anatomy 6476
*Rhizopogon luteolus*, mycorrhizas, morphology 7290
*Scleroderma citrinum*, mycorrhizas, morphology 7290
***Pinus patula*** cont.
*Thelephora terrestris*, mycorrhizas, ultrastructure 6475
***Pinus peuce,*** *Cronartium ribicola*, genetics 3149
***Pinus pinaster***
*Cronartium flaccidum*, infection 4841
diseases
ecology 2391
Portugal 2391
vectors 2391
*Hebeloma cylindrosporum*, mycorrhizas, genetic transformation 710
*Pisolithus*
mycorrhizas
plant water relations 2496
water stress 4963
*Pisolithus tinctorius*
mycorrhizas
genetics 4965
growth 4965
***Pinus pinea***
*Rhizopogon roseolus*
mycorrhizas
growth 91
photosynthesis 91
water relations 91
*Suillus collinitus*
mycorrhizas
growth 91
photosynthesis 91
water relations 91
*Tuber albidum*, mycorrhizas, enzymes 8125
***Pinus ponderosa***
*Endocronartium harknessii*, resistance 598
*Ophiostoma clavigerum*, terpenoids 8790
sulfur dioxide
California 594
susceptibility 594
***Pinus pumila,*** *Coleosporium pini-pumilae*, China 6316
***Pinus radiata***
*Agrobacterium tumefaciens*
galls 3156
host parasite relationships 3156
*Armillaria limonea*, biological control 7939
*Armillaria novae-zelandiae*, biological control 7939
decline, Israel 7940
diseases, Spain 596
*Endocronartium harknessii*
California 7937
street trees 7937
mycorrhizas, enzymes 2502
*Mycosphaerella pini*
breeding 5551
control 7932
New South Wales 5551, 6306
New Zealand 7932
susceptibility 6306
*Rhizopogon luteolus*
mycorrhizas
nutrients 6473
spore germination 6473
***Pinus resinosa***
mycorrhizas
Michigan 6474
succession 6474
***Pinus sibirica***
diseases
high altitude 3152
Norway 3152
*Lophodermium pini-sibiricum*
China 6313
taxonomy 6313
***Pinus strobus***
*Cronartium ribicola*, genetics 3149, 3987
*Graphium*, pathogenicity 8788
*Leptographium procerum*
pathogenicity 8788
vectors 4837
Virginia 4837
*Ophiostoma piceae*, pathogenicity 8788
*Suillus granulatus*, mycorrhizas, host specificity 6469
***Pinus sylvestris***
acid rain
Finland 5533

***Pinus sylvestris*** *cont.*
acid rain *cont.*
phyllosphere fungi 5533
air pollution
Belarus 4843
damage 5550, 8797
Germany 5550
remote sensing 8797
*Armillaria ostoyae*
histochemistry 3151
infection 3151
wounds 3151
blue-stain fungi
bark beetles 599-600
pathogenicity 600, 1708
Sweden 1708
temperature 599
*Ceratocystis bruneociliata*, host parasite relationships 6307
*Cronartium flaccidum*
Kazakhstan 4828
varietal reactions 4828
*Crumenulopsis sororia*
evolution 1712
host parasite relationships 1712
decline, Switzerland 6302
diseases
control 2389
high altitude 3152
Latvia 2389
Norway 3152
*Endocronartium harknessii*, screening 597
*Endocronartium pini*
Kazakhstan 4828
varietal reactions 4828
*Gremmeniella abietina*
Finland 7111
growth 7111
life cycle 4842
nutrient deficiencies 1165
resistance 1165
Sweden 4842
*Heterobasidion annosum*
assessment 4833
Belarus 4832-4833
cultural methods 4832
Czechoslovakia 4827
intersterility groups 4825
Kazakhstan 4828
Latvia 1709
varietal reactions 1709, 4828
vectors 4827
*Laccaria laccata*, mycorrhizas, nitrogen 6471
*Leptographium wingfieldii*
bark beetles 1164
phenolic compounds 1164
*Lophodermium pinastri*
Latvia 1710
Romania 3171
varietal reactions 1710
mycorrhizas
fertilizers 4125
Germany 7281
IAA 2498
indoles 2498
lime 700
nitrogen 7281
pH 700
phosphorus 4122, 4972
Poland 5710
Russia 4122
*Nectria radicicola*
biochemistry 4840
host parasite relationships 4840
*Ophiostoma brunneo-ciliatum*
bark beetles 1164
phenolic compounds 1164
Ophiostomatales
France 5553
insects 5553
ozone, Germany 1163
*Paxillus involutus*
mycorrhizas
enzymes 8124
nitrogen 704, 8124
phosphorus 8124
*Phacidium infestans*
epidemiology 3988
stand density 3988

***Pinus sylvestris*** *cont.*
*Phellinus pini*
Kazakhstan 4828
varietal reactions 4828
*Pisolithus tinctorium*
mycorrhizas
enzymes 6480
infection 6480
*Russula ochroleuca*, mycorrhizas, morphology 6478
*Suillus bovinus*
mycorrhizas
apoplastic transport 3326
nitrogen 704
sulfur dioxide, turbidity 595
***Pinus taeda***
acid rain
foliage 1715
growth 2395, 7941
*Cenococcum geophilum*, mycorrhizas, China 6477
*Cronartium fusiforme*
Florida 6305
Georgia 6305, 7115
host parasite relationships 6308
selection 6304
sewage 4836
site preparation 7115
varietal reactions 7933
yield losses 4830
*Gibberella fujikuroi* var. *subglutinans*
control 4839
insects 4839
North Carolina 4839
*Gloeophyllum trabeum*, control 3986
*Heterobasidion annosum*, estimation 4838
mycorrhizas
Alabama 4126
salinity 7291
spread 4126
*Ophiostoma minus*
Louisiana 6309
susceptibility 6309
vectors 6309
ozone
foliage 1715
growth 2395-2396, 7941
*Pisolithus tinctorius*
mycorrhizas
Georgia 4127
growth 698, 4127
phosphorus 698
plant water relations 705
*Rhizoctonia*, Virginia 8796
***Pinus thunbergii***
diseases, biological control 6544
*Rosellinia necatrix*, pathogenicity 7920
***Pinus wallichiana***, *Suillus granulatus*, mycorrhizas, host specificity 6469
***Piper auritum***, plant extracts, antifungal agents 5698
***Piper betle***
*Colletotrichum capsici*
Assam 3193
control 7977
environmental factors 3193
organic amendments 7977
*Corticium rolfsii*, control 7153
*Phytophthora palmivora*
interactions 4881
Tamil Nadu 4882
plant extracts, antifungal agents 904, 2813
*Rhizoctonia solani*, Madhya Pradesh 7978
viruses
Andhra Pradesh 4008
mixed infections 4008
*Xanthomonas campestris* pv. *betlicola*
biochemistry 4009
phosphorus 4009
***Piper methysticum***
cucumber mosaic cucumovirus
Fiji 5601
Tonga 5601
***Piper nigrum***
*Colletotrichum*
control 7150
environmental factors 7150

***Piper nigrum*** *cont.*
*Corticium rolfsii*
control 7150
environmental factors 7150
*Fusarium solani*, Nematoda 623
*Fusarium solani* f.sp. *piperis*, induced mutations 2415
*Glomus etunicatum*
mycorrhizas
growth 3338
Nematoda 3338
phosphorus 3338
*Glomus fasciculatum*
mycorrhizas
growth 3338
Nematoda 3338
phosphorus 3338
*Phytophthora*
Indonesia 624
isolates 624
mating types 624
*Phytophthora infestans*, soil treatment 4013
*Pythium*
control 7150
environmental factors 7150
*Rhizoctonia solani*
control 7150
environmental factors 7150
**Piperalin,** activity, *Ustilago zeae* 1238
***Piptocephalis virginiana***
hyperparasitism
*Mortierella candelabrum* 3359
*Mortierella pusilla* 3359, 4207, 6517
*Phascolomyces articulosus* 3359, 4207, 6517
***Piscidia erythrina***, plant extracts, antifungal agents 2482
***Pisolithus***
*Pinus pinaster*, mycorrhizas 2496, 4963
trees, mycorrhizas 2501
***Pisolithus arhizus***
heterokaryosis 1257
mating types 1257
*Pseudotsuga menziesii*, mycorrhizas 7294
***Pisolithus tinctorius***
*Arbutus menziesii*, mycorrhizas 6504
biochemistry, phosphorus 4132
*Eucalyptus*, mycorrhizas 1259
*Eucalyptus globulus*, mycorrhizas 4973, 5703
*Eucalyptus grandis*, mycorrhizas 7282
forest trees, mycorrhizas 1844
laboratory tests, pesticides 4124
physiology, enzymes 8127
*Picea abies*, mycorrhizas 2497
*Pinus banksiana*, mycorrhizas 4965
*Pinus caribaea*, mycorrhizas 3325
*Pinus pinaster*, mycorrhizas 4965
*Pinus radiata*, mycorrhizas 2502
*Pinus sylvestris*, mycorrhizas 6480
*Pinus taeda*, mycorrhizas 698, 705, 4127
*Quercus myrsinaefolia*, mycorrhizas 4130-4131
***Pissodes fasciatus***, transmission, *Leptographium wageneri* 6324
**Pistachios** (*Pistacia vera*)
*Botryosphaeria dothidea*
California 7812
environmental factors 3042
irrigation 3042, 7812
***Pistacia vera*** (*see* Pistachios)
***Pisum sativum*** (*see* Peas)
***Pithecellobium dulce***
*Botryodiplodia theobromae*, Pakistan 3131
plant extracts
antifungal agents 2813
antiviral agents 7057
***Pithecellobium mangense***
mycorrhizas
growth 4152
Mexico 4152
**Pittosporum vein yellowing nucleorhabdovirus,** tomatoes, Italy 3770
**Plant diseases**
Afghanistan 4037
antagonism, terminology 4054
Austria, weather 4267
biological control
books 7176

**Plant diseases** *cont.*
biological control *cont.*
developing countries 6595
Irish Republic 1358
reviews 1970, 6383, 6595, 6605-6606
USA 1971
biotechnology, books 6379
breeding 2604
biotechnology 5639, 5824
genetics 3223
chloride, reviews 2602
control 7179
biotechnology 7388
books 4045, 4904, 6381, 8020
chitinase, reviews 8090
Europe 4290
Greece 4288
Israel 3418, 4287
Japan 4289
models 5791
plant extracts 3489
research 3419
soil solarization 3419
defence mechanisms 2616
biochemistry 2437
books 2437
lignin 7430
diagnosis 7387
edaphic factors 3388
environmental factors 7423
enzymes, analysis, reviews 152
epidemiology 1774
books 4046
models 142, 1927
estimation, errors, reviews 4234
forecasting 782
Kazakhstan 783
Norway 132
weather data 8178
genetic engineering, books 2434
genetic resources 8242
genetics
models 5823
reviews 6599
host parasite relationships 2604
genetics 811
immunodiagnosis 8188
induced resistance 1948
reviews 233, 6597
terminology 2439
information systems 782
integrated control 6611
Indonesia 5633
reviews 5632
integrated pest management 1775
genetics 1776
sustainability 224
USA 223
legislation
China 4115
Europe 2487, 3321, 4115
Finland 2487
France 2486
Germany 2487, 3321
Italy 3321
Poland 2487
Spain 2487
Sweden 2487
Turkey 2485
USSR 2487
models 1928, 1930
Kazakhstan 783
molecular genetics, reviews 2597
mycotoxins, analysis, reviews 152
physiology, research, Brazil 6621
phytoalexins, reviews 6597
resistance
biochemistry 7418
evolution, reviews 4052
genetic engineering 6571, 8177
molecular genetics 1966, 7418
reviews 5825
reviews 652
salicylic 4269
soil solarization 4284
Turkey 4210
suppressive soils, reviews 1895
Sweden 1351-1352
tissue culture, control 6580
Tropics, biological control 1973

**Plant extracts**
activity
*Agrobacterium rhizogenes* 1241
*Alternaria* 3290, 6465
*Alternaria alternata* 3952
aubergines 3762
*Capsicum* 3762
*Alternaria solani* 691, 1835, 6462
*Alternaria tenuissima* 77
*Aspergillus* 3290
*Aspergillus flavus*, rice 2733
*Aspergillus niger* 691
rice 2733
*Botrytis cinerea*
aubergines 3762
*Capsicum* 3762
*Cladosporium* 690
*Cladosporium cucumerinum* 5698, 7263, 8120
*Cochliobolus lunatus* 3286, 5694
rice 2733
*Cochliobolus miyabeanus* 6718
rice 904
*Corticium rolfsii* 1831, 2045
*Cryptodiaporthe populea* 3139
cucumber mosaic cucumovirus 6119
*Capsicum* 6119
*Cylindrocarpon lichenicola* 3286
*Erysiphe graminis*, wheat 3519
*Fusarium* 6465
*Fusarium culmorum* 3315
*Fusarium oxysporum* 691, 1701, 1831, 1835
*Fusarium solani* 3286
*Gibberella fujikuroi*, rice 2733
*Gibberella zeae* 8121
*Glomerella cingulata*, mangoes 6999
*Helminthosporium* 6465
horticultural crops, diseases 7432
*Hypoxylon serpens* 4732
*Leptosphaeria nodorum*, wheat 3519
*Myrothecium leucotrichum* 3286
*Myrothecium roridum*, soyabeans 6770
*Oidium begoniae* 7432
*Penicillium* 691, 3290
*Piper betle*, rice 904
*Podosphaera leucotricha*, apples 2941, 3821
potato Y potyvirus 791
*Pyricularia oryzae* 6718
rice 2733, 7548
*Pythium* 1701
*Pythium debaryanum* 1831
*Rhizoctonia solani* 1831, 3319, 6718, 7525
rice 904, 2733
*Rhizopus* 691
rice, mycoplasma-like organisms 4413
rice tungro virus, rice 4414
*Setosphaeria turcica* 7515
soil fungi 3952
soybean yellow mosaic virus 6764
*Sphaerotheca fuliginea* 7432
sunn-hemp mosaic tobamovirus 791
tobacco mosaic tobamovirus 791, 6886, 7056-7057
tobacco necrosis necrovirus 6005
*Trichoderma viride* 8121
*Venturia inaequalis*, apples 2941
antibacterial agents 1240, 5668, 6602
antifungal agents 626, 692, 1240, 1368, 1759, 1832-1833, 2109, 2482-2483, 4377, 4504, 5668, 5697, 6463-6464, 6602, 6610, 7901
antiviral agents 157, 7394
control
*Aspergillus flavus*, cotton 3947
*Botrytis cinerea*, grapes 6188
*Mycosphaerella berkeleyi*, groundnuts 7841
okra (bhendi) yellow vein mosaic bigeminivirus, okras 8605
plant diseases 3489
*Plasmopara viticola*, grapes 6964
*Puccinia arachidis*, groundnuts 7841
*Thanatephorus cucumeris*, *Vigna radiata* 2813
zucchini yellow mosaic potyvirus, marrows 5351

**Plant growth regulators**
activity
*Botrytis cinerea* 6098
aubergines 7674
roses 6329
tomatoes 7674
*Gnomonia erythrostoma*, cherries 7751
*Ricinus communis*, rhizosphere microflora 531
rye, diseases 2622
wheat, diseases 2622
control
grapes, chlorosis 1074
*Podosphaera leucotricha*, apples 2940
potatoes, diseases 817
rape, diseases 6230
tomatoes, diseases 817
*Venturia inaequalis*, apples 2940

**Plant oils**
activity
*Albugo occidentalis* 4611
*Aspergillus* 8118
*Aspergillus flavus* 1834
*Cochliobolus pallescens* 3910
fungi 8119
*Glomerella cingulata*, mangoes 6999
*Glomerella tucumanensis* 3910
*Periconia atropurpurea* 3910
*Podosphaera leucotricha* 4611
rice, mycoplasma-like organisms 4413
soybean yellow mosaic virus 6764
*Venturia inaequalis* 4611
antifungal agents 2481, 2483

**Plant pathogens**
air spora
population genetics 148
sampling 148
biotechnology 6388
detection, reviews 6573
ecosystems, reviews 1777-1778
fungicide tolerance, reviews 5667
germplasm, detection 3416
host parasite relationships, reviews 1958
immunodiagnosis, monoclonal antibodies 5797
infection, enzymes 6619
interactions, reviews 1779
leaves, reviews 8254
Nematoda, interactions 3473-3476, 4044
population dynamics 1868
*Pseudomonas*, antagonism 8034
*Pseudomonas cepacia*, antagonism 4060, 4926
quarantine, Canada 3322, 4114
races, genetics 3223
safety 2441
soil
biological control 5030, 5776
control 4208, 4215, 4286
population dynamics 4214
reviews 4214
taxonomy, conferences 3405
toxins, analysis, books 128
vectors, reviews 1958

**Plant pathology**
books 5630
computer software 4907
dictionaries 1199
models 8179
molecular biology, books 2436
molecular genetics, reviews 654
research
Germany 3224
Taiwan 4051
Venezuela 2440, 2607
teaching 649

**Plant protection**
Bihar 5114
biotechnology 5640, 5822
books 6378
Burkina Faso 8257
clinics, reviews 4050
computer techniques 136
Denmark 5792
reviews 1926
Sweden 5794
databases 139, 3221
Irish Republic 129
developing countries, biotechnology 6384

**Plant protection** *cont.*
dictionaries 1197
environmental impact 3225, 7180
Europe, legislation 7278
forecasting 2558
France 3219
information
Denmark 5795
Latin America 3
information systems 5634
Italy 1193
legislation 5635
Mali 8257
meteorology, France 3219
models 2558
Niger 8257
pesticides 8024
Poland 6421
public opinion, Europe 8023
regulations 7272
Senegal 8257
Southern Africa 3465
technology
Europe 8023
reviews 5631
USSR, books 4042
**Plant viruses** (*see* Viruses)
***Plantago lanceolata***
mycorrhizas
carbon 3352
ecology 8143
growth 8144
nutrient uptake 8144
**Plantation crops,** diseases, books 1773
**Plants**
Actinomycetales, roots 6413
*Agrobacterium tumefaciens*
gene expression 1784
host parasite relationships 1784
*Armillaria,* reviews 1362
bacteria
genetic engineering, reviews 5642
ice nucleation, reviews 4
*Colletotrichum*
host parasite relationships 6613
resistance 6613
reviews 6613
diseases
biochemistry 1356
biological control 3481
chitin 4276
control 2613
epidemiology 2617
Florida 1961
forecasting 2613
genetic engineering 7386
host parasite relationships 1356, 4276
induced resistance 1357
mycorrhizas 4997
phenolic compounds, reviews 6596
resistance 2617
seed treatment 3481
Taiwan 8237
transmission 8237
*Erwinia amylovora,* control 7195
fungi
defence mechanisms 216
elicitors 216
host parasite relationships 215, 812
phytoalexins 215
Turkey 7362
mineral deficiencies, books 8021-8022
mineral excess, books 8021-8022
mycoplasma-like organisms
micropropagation 8233
reviews 3457
mycorrhizas
ecology 4293
Tamil Nadu 7299
mycotoxins, binding proteins 8253
pathogens
ecology 4293
lignification, reviews 6620
*Phytophthora cinnamomi*
mammals 6513
Victoria 6513
potyvirus group
genetics 174
resistance 174
powdery mildews, Hungary 5039
**Plants** *cont.*
*Pseudomonas syringae,* ice nucleation 667
soil bacteria, roots 1304
soil fungi, roots 1304
Uredinales, host parasite relationships 107
viroids 7393
viruses
coat proteins 5804
defence mechanisms 5805
diagnosis 2570
elimination 1318
ethylene 1935
genetic engineering 5801, 5804
genetic transformation 5802-5803, 8191
genetics 4238, 5054
grafting 1318
host parasite relationships 1935
pathogenesis-related proteins 1969
resistance 2566, 2572, 5054, 5804
reviews 7397
***Plasmodiophora brassicae***
*Arabidopsis thaliana*
histopathology 115
life history 115
*Brassica*
breeding 997
control 2867, 8514
resistance 997
UK 8514
cabbages
assessment 5311
genetics 6845
Japan 5311
cauliflowers
breeding 7664
control 2868
Victoria 2868
Chinese cabbages
edaphic factors 6846
Kyushu 1536
Cruciferae
Finland 6077
races 6077
laboratory tests, antagonists 745
mustard
control 6234
varietal reactions 6234
West Bengal 6234
rape
control 6234
Denmark 7816
rotations 7816
varietal reactions 3889, 6234
West Bengal 6234
turnips
culture 8509
zoospores 8509
***Plasmopara,*** Umbelliferae, taxonomy 779
***Plasmopara halstedii***
molecular genetics, nucleotide sequences 7339
sporangia, preservation 4232
sunflowers
Europe 523
genetics 8674
identification 524
inoculation 522
Madhya Pradesh 3052
mycoviruses 2307
North Dakota 2307
races 523-524
reviews 6239
Turkey 520
viruses, characteristics 7415
***Plasmopara veronicae-chinensis, Veronica cinerea,*** Himachal Pradesh 3392
***Plasmopara viticola***
grapes
Australia 482
China 2252
control 482, 2986, 2990, 6961, 6964
environmental factors 6180
enzymes 6963
forecasting 225, 2989, 2991
genetics 3858
Germany 2989
host parasite relationships 6963
Italy 2990, 6180
***Plasmopara viticola*** *cont.*
grapes *cont.*
overwintering 6180
reviews 6965
screening 2252, 3858
soil water 4647
spore germination 4647
varietal reactions 4648
*Vitis*
China 2252
screening 2252
***Platanus***
*Apiognomonia veneta*
control 2388
Washington 2388
*Ceratocystis fimbriata* f.sp. *platani,* control 3978
diseases, Italy 7955
*Microsphaera platani,* Azerbaijan 3980
***Platanus acerifolia***
*Apiognomonia veneta*
air pollution 7924
drought 7924
UK 5543
*Ceratocystis fimbriata,* toxins 7108
*Ceratocystis fimbriata* f.sp. *platani,* strains 4823
*Glomus*
mycorrhizas
detection 4159
infection 4159
*Massaria platani*
control 3981
France 3145, 3981
*Melanospora,* Czechoslovakia 7104
***Platanus occidentalis***
*Botryodiplodia theobromae*
breeding 5540
USA 5540
*Ceratocystis fimbriata*
breeding 5540
USA 5540
*Xylella fastidiosa,* pathogenicity 4815
***Platycladus orientalis***
*Chloroscypha platycladus*
Jiangsu 5782
taxonomy 5782
***Pleiochaeta setosa***
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
lupins
New Brunswick 1477
Nova Scotia 1477
seeds 1477
***Pleospora betae***
beetroots, Russia 1008
fodder beet
Argentina 4540
seed treatment 3086
seeds 4540
spinach beets
Argentina 4540
seeds 4540
sugarbeet
biological control 540-541
control 3086
host parasite relationships 3919
seed treatment 3091
***Pleospora herbarum***
*Avicennia officinalis,* Iran 1705
faba beans
Hungary 8433
overwintering 8433
*Thymus*
Austria 5609
Spain 5609
***Pleospora papaveracea, Papaver rhoeas,*** biological control 6362
***Pleospora tarda***
faba beans, seeds 7605
lentils, Hungary 3699
lucerne
biological control 2615
phytoalexins 4456
spore dispersal, aerodynamic properties 4196
tomatoes, biological control 2615
**Pleosporales,** taxonomy 4223

***Pleuroplaconema***
*Sequoia sempervirens*
endophytes 7107
host parasite relationships 5555
plant oils 5555
USA 7107
***Pleurotus cystidiosus,*** figs, Greece 490
***Pleurotus flabellatus,*** *Corticium rolfsii,* physiology 4019
***Pleurotus ostreatus***
control
chrysanthemum B carlavirus, chrysanthemums 7134
tomato asperny cucumovirus, chrysanthemums 7134
*Gilmaniella humicola,* control 4018
*Populus*
defence mechanisms 7916
discoloration 7916
*Trichoderma hamatum,* control 4018
**Plum pox potyvirus**
apricots
coat proteins 3836
Czechoslovakia 2229
detection 5401
Europe 2232
genetic transformation 1585, 3836
induced resistance 1585
Italy 1054, 2237, 2969
Spain 2234
testing 2235
varietal reactions 2234-2235, 3837
Yugoslavia 3834
molecular genetics
gene expression 8225
helper component 8225
nucleotide sequences 4252
proteinases 2577
recombination 4252
RNA 8216
RNA amplification 1056
nectarines, varietal reactions 3844
*Nicotiana benthamiana*
coat proteins 3434, 3938
genetic transformation 1327, 3434, 3938, 6589
induced resistance 1327
transmission 6589
*Nicotiana clevelandii*
coat proteins 3434
genetic transformation 1327, 3434
induced resistance 1327
peaches
Italy 1587, 2969
varietal reactions 3844
plums
detection 6940
host parasite relationships 3839
Italy 1054, 2969
micropropagation 6940
phenolic compounds 2972
varietal reactions 2972
Yugoslavia 3834, 6158
*Prunus*
detection 7267
quarantine 7267
*Prunus spinosa,* Yugoslavia 3833
stone fruits, detection 1056
tobacco
coat proteins 3938
genetic transformation 3938, 8225
***Plumeria rubra***
*Stenella plumeriae*
taxonomy 750
West Bengal 750
**Plums** (*Prunus cerasifera* and *P. domestica*)
anthracnose
control 5402
epidemiology 5402
*Apisporina morbosa,* genetics 6941
*Aspergillus niger,* biological control 668
brown rot
control 5404
Japan 5403
diseases
Bulgaria 2974
integrated pest management 2974
mycorrhizas, South Africa 7302
*Phomopsis cinerascens*
California 2973
wind damage 2973
**Plums** *cont.*
plum pox potyvirus
detection 6940
host parasite relationships 3839
Italy 1054, 2969
micropropagation 6940
phenolic compounds 2972
varietal reactions 2972
Yugoslavia 3834, 6158
prune dwarf ilarvirus, immunodiagnosis 6140
prunus necrotic ringspot ilarvirus
detection 6940
micropropagation 6940
*Stigmina carpophila*
flavanols 2931
histochemistry 2931
*Taphrina pruni*
control 2975
Switzerland 2975
tomato ringspot nepovirus, detection 4625
*Tranzschelia discolor*
Germany 6555
Mexico 6937
taxonomy 6555
*Tranzschelia pruni-spinosae,* preservation 6159
viruses, varietal reactions 6157
*Xanthomonas campestris* pv. *pruni*
assessment 468
breeding 468
Italy 3841, 5405
screening 6942
varietal reactions 3840
**PMA** (*see* Phenylmercury acetate)
***Poa annua***
*Sclerotinia homoeocarpa*
control 345
soil amendments 345
***Poa pratensis***
*Claviceps purpurea*
control 4451, 8401
Idaho 8401
seed production 4449
seeds 4451
*Cochliobolus sativus,* herbicides 8396
diseases
control 1468, 2089
Denmark 2089
varietal reactions 2089
*Drechslera poae,* control 4450
*Puccinia brachypodii* var. *poae-nemoralis,* control 4450
*Puccinia poarum,* control 4450
*Sclerophthora macrospora,* Illinois 7957
*Sclerotinia homoeocarpa*
control 1724
Nematoda 1724
**Poa semilatent hordeivirus**
molecular genetics
nucleotide sequences 5058
RNA 5058
***Podocarpus nagi***
*Meliola podocarpicola*
China 5781
taxonomy 5781
***Podocarpus nubigenus***
*Bivallum podocarpi,* taxonomy 592
mycorrhizas
Chile 5702
morphology 5702
***Podocarpus salignus***
*Bivallum podocarpi,* taxonomy 592
mycorrhizas
Chile 5702
morphology 5702
***Podosordaria ingii***
dates
Canary Islands 2287
taxonomy 2287
***Podosphaera leucotricha***
apples
breeding 6143
control 462, 2939-2940, 2942-2943, 2954, 3821, 4611, 5390, 6450, 6915, 6917, 6921, 8609-8610
epidemiology 1045
Europe 8610
fungicide tolerance 8610
genetics 2956
***Podosphaera leucotricha*** *cont.*
apples *cont.*
Germany 1045
Kazakhstan 2955
Mexico 6915, 6921
plant extracts 2941
plant oils 4611
reviews 2943, 6920
spore germination 5389
spraying equipment 2942
UK 2954
biochemistry, sterols 8151
laboratory tests, hydantoins 3289
***Podosporium elongatum***
bamboos
Taiwan 5600
taxonomy 5600
**Poinsettias** (*see Euphorbia pulcherrima*)
***Poitrasia circinans, Equisetum arvense,*** Madhya Pradesh 5779
**Poland**
apples, *Venturia inaequalis* 2951
asparagus, *Zopfia rhizophila* 8531
carrots, seedborne fungi 2852
*Cattleya,* odontoglossum ringspot tobamovirus 4874
crops, diseases 220
*Cyclamen persicum*
*Alternaria alternata* 6347
*Penicillium* 6347
*Phoma exigua* 6347
faba beans, diseases 1489
garlic, diseases 5305
greenhouse crops, tomato spotted wilt tospovirus 5075
hops, prunus necrotic ringspot ilarvirus 5598
*Lolium perenne,* seedborne fungi 8398
lupins, viruses 937
*Oncidium flexuosum,* odontoglossum ringspot tobamovirus 5587
*Phaseolus coccineus,* seedborne fungi 4478
*Pinus sylvestris,* mycorrhizas 5710
plant diseases, legislation 2487
plant protection 6421
potatoes
*Erwinia carotovora* subsp. *atroseptica* 6061
potato leaf roll luteovirus 6036
potato M carlavirus 6036
potato Y potyvirus 6036, 6810
soil, mycorrhizal fungi 3350
strawberries, viruses 5418
sugarbeet
*Cercospora beticola* 4730
*Erysiphe betae* 4730
viruses 5485
triticale, diseases 8342
wheat
*Fusarium* 5855
*Gaeumannomyces graminis* var. *tritici* 5855
*Gibberella avenacea* 5855
mycotoxins 1988
***Polianthes tuberosa,*** plant extracts, antiviral agents 6886
**Polygonaceae,** plant extracts, antiviral agents 6005
***Polygonum chinense,*** *Colletotrichum capsici,* Assam 3400
***Polygonum cuspidatum*** (*see Reynoutria japonica*)
***Polymyxa betae***
*Beta,* resistance 3917
sugarbeet
control 3920
Czech Republic 2333
Kyrgyzstan 8708
selection 8708
transmission
beet necrotic yellow vein furovirus 2332, 3917, 7851, 7854-7855
beet soil-borne furovirus 7854
***Polymyxa graminis***
barley
isolation 8335
ultrastructure 5902
biological control 8196
host range 6625

***Polymyxa graminis* cont.**
transmission
cereals, viruses 2620-2621
wheat yellow mosaic bymovirus 6625
**Polyoxins**
activity, *Septoria apiicola* 7248
control
*Botrytis cinerea*
roses 2407
*Ruscus hypoglossum* 3995
fungicide tolerance
*Alternaria alternata* 1575
*Sphaerotheca macularis* 2245
***Polypogon monspeliensis***
*Clavibacter toxicus*
South Australia 7571
vectors 7571
*Puccinia polypogonis*
histopathology 2093
urediospores 2093
*Sclerophthora macrospora*, Indian Punjab 4301
***Polyporus grammocephalus*,** forest trees, Taiwan 2378
***Polyporus ostreiformis*, *Ficus bengalensis*,** physiology 8762
***Polyscytalum pustulans***
potatoes
control 8486
drying 6814
fungicide tolerance 984
storage 6814
tissue culture 6031
UK 984, 6031, 8486
***Polystigma ochraceum***
almonds
control 6222
Israel 6222
***Polystigma sonneratiae***
*Sonneratia*
Queensland 589
taxonomy 589
**Polysulfide,** control, *Septoria divaricatae*, *Phlox* 5574
***Polythrincium trifolii***
*Trifolium repens*
assessment 7582
North Carolina 7582
**Pome fruits**
diseases
bibliographies 2218
control 2218
India 1354
*Erwinia amylovora*
conferences 458
forecasting 2935
Germany 458
*Gymnosporangium*
control 7728
epidemiology 7728
*Monilinia fructigena*
control 8606
Switzerland 8606
*Monilinia laxa*
control 8606
Switzerland 8606
*Phytophthora*, Switzerland 2930
**Pomegranates** (*Punica granatum*)
*Botrytis cinerea*
Armenia 7009
Azerbaijan 7009
Republic of Georgia 7009
*Cercospora punicae*, biology 2274
***Poncirus trifoliata*, *Glomus citricolum*,** mycorrhizas, phosphorus 4142
**Ponderosa pine** (*see Pinus ponderosa*)
***Pongamia pinnata***
plant extracts, antifungal agents 4877, 6464
*Pseudocercospora pongamiae-pinnatae*
Andhra Pradesh 1925
taxonomy 1925
**Poplar mosaic carlavirus**
molecular genetics, nucleotide sequences 5089
*Populus*
clonal variation 1153
Germany 1153
resistance 7096
ultrastructure 7096
**Poplars** (*see Populus*)
**Poppies** (*see Papaver*)
***Populus***
*Agrobacterium tumefaciens*
France 4811
plasmids 4811
*Chondrostereum purpureum*
British Columbia 6296
isolates 6296
New Brunswick 6296
*Cladosporium*, induced resistance 3971
*Coriolus versicolor*
defence mechanisms 7916
discoloration 7916
*Cryptodiaporthe populea*
antagonists 7099
plant extracts 3139
diseases
control 4809
Himachal Pradesh 7919
Jammu and Kashmir 4810
Pakistan 3140
seasonal variation 7919
Uttar Pradesh 4809
*Dothiorella gregaria*
control 8775
Liaoning 8775
*Marssonina brunnea*
control 3138
Italy 3138
*Melampsora allii-populina*
France 3972, 7918
susceptibility 7918
varietal reactions 3137
*Melampsora ciliata*, induced resistance 3971
*Melampsora larici-populina*
France 3972, 7918
host range 7098
Oregon 7098
susceptibility 7918
varietal reactions 3137
Washington 7098
*Melampsora medusae*
France 3972, 7918
Oregon 7097
susceptibility 7918
varietal reactions 3137
Washington 7097
*Mycosphaerella populorum*
ascospores 585
Iowa 585
ozone, physiology 3973
*Pleurotus ostreatus*
defence mechanisms 7916
discoloration 7916
poplar mosaic carlavirus
clonal variation 1153
Germany 1153
*Rosellinia necatrix*
edaphic factors 584
Italy 584
Japan 7920
pathogenicity 7920
sporulation 7920
*Tuber magnatum*
mycorrhizas
grafting 2500
inoculation 2500
*Xanthomonas populi* subsp. *populi*, testing 1154, 7921
***Populus balsamifera***
*Melampsora medusae*
screening 7917
USA 7917
mycorrhizas
afforestation 7284-7285
Alaska 7284-7285
inoculum 7284-7285
*Mycosphaerella populorum*
screening 7917
USA 7917
***Populus canadensis***
*Drepanopeziza punctiformis*
control 7089
France 7089
*Melampsora larici-populina*
control 7089
France 7089
poplar mosaic carlavirus
resistance 7096
ultrastructure 7096
***Populus deltoides***
*Acaulospora*, mycorrhizas, inoculation 4976
*Cercospora populina*, India 3984
*Glomerella cingulata*, Karnataka 4794
*Glomus*, mycorrhizas, inoculation 4976
*Melampsora larici-populina*, Uttar Pradesh 6295
*Melampsora medusae*
environmental factors 8774
genotypes 5537
isolates 5537
Kentucky 5537, 8774
Mississippi 5537
*Phoma macrostroma*, India 3984
poplar mosaic carlavirus
resistance 7096
ultrastructure 7096
***Populus maximowiczii***
poplar mosaic carlavirus
resistance 7096
ultrastructure 7096
***Populus nigra***
*Drepanopeziza populorum*
control 7089
France 7089
poplar mosaic carlavirus
resistance 7096
ultrastructure 7096
***Populus tremula***
*Melampsora populnea*
Italy 3126
provenance 3126
*Phellinus tremulae*, resistance 4808
***Populus tremuloides***
*Cytospora*, Mexico 7100
*Marssonina*, Mexico 7100
*Mycosphaerella populorum*, Mexico 7100
***Populus trichocarpa***
*Melampsora occidentalis*, varietal reactions 2387
poplar mosaic carlavirus
resistance 7096
ultrastructure 7096
***Porphyra***
*Pythium marinum*
host parasite relationships 5606
infection 5606
**Portugal**
*Brassica*, *Xanthomonas campestris* pv. *campestris* 8516
grapes, viroids 2984
olives, strawberry latent ringspot nepovirus 3900
*Pinus pinaster*, diseases 2391
*Quercus ilex*, *Phytophthora cinnamomi* 3969
*Quercus suber*, *Phytophthora cinnamomi* 3969
trees, Aphyllophorales 3128
***Portulaca*, *Rhizoctonia solani*,** Japan 5579
**Postharvest decay**
apples 1047, 2222, 2225, 6150
aubergines 3762
avocados 512, 2279, 3884, 4658, 8662
bananas 494
cabbages 6078
*Capsicum* 3762
carrots 4532, 6064
cassava 8500
cauliflowers 3753
citrus 502, 6989, 8651
cucumbers 5371, 6895-6896
*Docynia indica* 6154
fruit 1039, 3464, 3471, 5121, 5643, 6511, 6912
grapefruits 6207
grapes 2255, 2992, 5427
kiwifruits 1597, 5429
lemons 4676
mandarins 501
mangoes 4658, 4680, 5449, 6998, 8656
melons 5378
onions 2860
ornamental plants 1735, 3992
passion fruits 2275
pawpaws 7806, 8661
pears 2965
*Phyllanthus emblica* 6218
roses 5560
*Ruscus hypoglossum* 3995

**Postharvest decay** *cont.*
tomatoes 6105
vegetables 3471, 5643
yams 6068
**Pot marigolds** *(see Calendula officinalis)*
**Potassium**
activity
*Colletotrichum capsici* 4203
*Pyricularia oryzae*, rice 7547
**Potassium chloride**
activity, wheat, root rots 251
control
*Erysiphe graminis*, barley 3565
*Puccinia hordei*, barley 3565
**Potassium permanganate**
control
*Fusarium*, cucumbers 7715
*Fusarium oxysporum* f.sp. *dianthi*, carnations 615
mandarins, postharvest decay 501
tomatoes, postharvest decay 6105
**Potassium silicate,** activity, *Pythium ultimum*, cucumbers 1032
**Potato A potyvirus**
molecular genetics, nucleotide sequences 208
potatoes, Turkey 2824
tobacco, immunodiagnosis 1656
**Potato aucuba mosaic potexvirus,** molecular genetics, transmission 8228
**Potato leaf roll luteovirus**
detection 790
monoclonal antibodies 4254
potatoes
antiviral agents 6807
breeding 4509, 4512, 6036
Canada 8479
control 2827
cultural methods 8476
detection 6038, 6806, 7422
electrophoresis 6040
elimination 7635
epidemiology 6034
forecasting 6037
genetic transformation 2562
heat treatment 4516
immunodiagnosis 1504, 8477
India 5287
Iran 6805
models 6037
movement 5286
Pakistan 7633, 8477
Poland 6036
purification 8477
resistance 391, 2562, 5286, 8478
reviews 6039
spread 2151
strains 5287
Sudan 972
survival 6034
tissue culture 2827, 4516
transmission 5287
Turkey 2824
UK 2151, 8478
USA 8479
varietal reactions 972, 6040-6041, 8478
Washington 6034
yield losses 972
transmission 8204
weeds, British Columbia 2423
**Potato M carlavirus**
molecular genetics, RNA 1332
potatoes
breeding 6036
control 2825
Poland 6036
**Potato mop-top furovirus**
potatoes
coat proteins 8484
monoclonal antibodies 8484
purification 8484
**Potato N virus,** potatoes, control 2825
**Potato S carlavirus**
potatoes
Chile 7636
detection 2155, 3712
DNA probes 2155
elimination 7635
heat treatment 4516
Iran 6805
**Potato S carlavirus** *cont.*
potatoes *cont.*
strains 1507
Sudan 972
tissue culture 4516
Turkey 2824
varietal reactions 972, 7636
yield losses 972
**Potato spindle tuber viroid**
molecular genetics
cloning 1337
replication 4247
potatoes
detection 2154, 5098, 5288, 6804
DNA 974
environmental factors 5290
genetic transformation 974
Mexico 6804
pollen 396
seeds 396
transmission 396
varietal reactions 5289-5290
tomatoes
detection 5098, 5288
host parasite relationships 2887
immunodiagnosis 2887
serology 2886
**Potato T capillovirus,** molecular genetics, nucleotide sequences 8211
**Potato V potyvirus,** potatoes, breeding 4514
**Potato X potexvirus**
*Datura*
host parasite relationships 1323
leaf age 1323
interactions, *Alternaria solani*, potatoes 3730
molecular genetics
gene expression 1345
genetic transformation 8228
nucleotide sequences 1344
RNA 1344, 5096
translation 5096
transmission 8228
*Nicotiana clevelandii*, genetic transformation 5498
potatoes
antiviral agents 6807
breeding 4512, 4514
Chile 7636
control 2825
detection 3712, 6806
electrophoresis 6040
genetic transformation 973, 1505
host parasite relationships 392
immunodiagnosis 2828
induced resistance 1505
inoculation 4515
Iran 6805
Mexico 6808
mixed infections 3711
photosynthesis 392
reservoir hosts 6808
resistance 973
screening 4515
strains 2824
Sudan 972
testing 8480
Turkey 2824
varietal reactions 972, 6040, 7636, 8474, 8480-8481
yield losses 972
serology, monoclonal antibodies 7400
*Solanum brevidens*, resistance 8473
tobacco
antiviral agents 6807, 7053
biochemistry 3096
gene expression 1668
genetic transformation 5497-5498
genetics 5497
inhibitors 5503
interactions 8206
molecular genetics 5504
protoplasts 7053
replication 5503
tomatoes
cytology 6858
symptoms 2894
**Potato Y potyvirus**
*Capsicum*
genetics 6882-6883
Himachal Pradesh 6120
**Potato Y potyvirus** *cont.*
*Capsicum cont.*
screening 8573
strains 6120
coat proteins, antibodies 5100
*Datura metel*, reservoir hosts 4024
molecular genetics
nucleotide sequences 172, 195, 5818, 8213
strains 195
plants, histopathology 1324
potatoes
antiviral agents 6807
breeding 4509, 4512, 6036
Canada 2153, 2829
Chile 7636
coat proteins 6809, 6811
control 2825
cyclic fluctuations 394
Denmark 7638
detection 3712, 6038, 6806
epidemiology 394
eradication 2153
forecasting 6037
genetic transformation 6809
heat treatment 4516
identification 1506
immunodiagnosis 1504
inoculation 4515
Iran 6805
isolates 6810
Japan 6811
Korea Republic 395
mixed infections 3711
models 393, 6037
New Brunswick 394
Poland 6036, 6810
screening 4515
serology 2829, 6811
strains 395, 2829, 6811, 7639
Sudan 972
Sweden 1352, 8482-8483
symptoms 7640
tissue culture 4516
transmission 395, 6044, 7638
Turkey 2824
UK 7639
USA 2829
varietal reactions 972, 6041-6042, 6044, 7636, 7639, 8474
vectors 8482
yield losses 972, 6042
Yugoslavia 6043-6044
*Solanum brevidens*
mixed infections 2152
resistance 8473
*Solanum nigrum*, reservoir hosts 4024
*Solanum stoloniferum*, varietal reactions 6033
sunflowers, Czech Republic 7817
taxonomy 185-186
tobacco
breeding 8724
Canada 2829
coat proteins 7060
control 3937
detection 4239
genetic engineering 6271
genetic transformation 2348, 7060, 8725
indicator plants 395
induced resistance 2348
interactions 8206
isolates 8726
metabolism 4760
molecular genetics 8726
RNA 4760
serology 2829
strains 2829, 4760
Taiwan 5492
transmission 562-563, 3937
USA 2829
yield losses 4753
Yugoslavia 6272
tomatoes
Himachal Pradesh 4574
mixed infections 2889
physiology 4574
transmission 4573
transmission 1326, 5800
vegetables, Shandong 3466

**Potato Y potyvirus** *cont.*
weeds, reservoir hosts 4024
**Potatoes** (*Solanum tuberosum*)
alfalfa mosaic alfamovirus, Mexico 6812
*Alternaria alternata*
control 8495
isolates 8494
Pakistan 8494-8495
*Alternaria solani*
control 7631
Cuba 2846-2847
environmental factors 2846
estimation 2165
induced resistance 3730
Israel 2165
life cycle 2846
plant growth stage 2847
screening 2164
toxins 7646
varietal reactions 3730
bacteria
control 1962
tissue culture 1962
Ukraine 1516
beet western yellows luteovirus
epidemiology 6034
survival 6034
Washington 6034
*Clavibacter michiganensis* subsp. *sepedonicus*
biological control 6063
diagnosis 2167
Europe 2167
genetic resources 2851
monoclonal antibodies 8496
tissue culture 1524
*Coleosporium senecionis*, Chile 2831
*Colletotrichum coccodes*
control 6616
distribution 2830
epidemiology 2830
host range 6616
infection 4528
injuries 4526
moisture 4526
Nebraska 983
reviews 6616
Washington 2830
yield losses 4528
Yugoslavia 6057
*Corticium rolfsii*
control 7650
varietal reactions 6824
*Cymadothea*, Chile 2831
diseases
antagonists 2822, 4511
Belarus 385
biological control 6607
breeding 388, 2821, 4509
control 817, 2832, 4286, 6032, 6803, 8486
Costa Rica 386
diagnosis 2821
fertilizers 4216
genetic transformation 387
host parasite relationships 4517
induced mutations 388
integrated control 5284
Latvia 2832
mixed infections 389
Moldova 817
Pakistan 7633
population dynamics 385
resistance 222
reviews 4510
rotations 3713
Russia 389, 6607
seed tubers 7632
tissue culture 6031
tubers 6032
UK 6031-6032, 8486
ultrastructure 4517
Wisconsin 5284
disorders
aetiology 3737
Chile 2850
control 3737
elicitors, enzymes 6049
*Erwinia*
control 6059
environmental factors 7652

**Potatoes** *cont.*
*Erwinia cont.*
gypsum 7651
Tunisia 7652
varietal reactions 7651-7652
*Erwinia carotovora*
environmental factors 2849
gene expression 1517
host parasite relationships 1517
radicals 5298
resistance 5298
storage 2849
*Erwinia carotovora* subsp. *atroseptica*
biological control 407
breeding 1520
China 6060
control 6062
fertilizers 1518
Haryana 3732
immunodiagnosis 1519
nitrogen 2848
Poland 6061
resistance 6060
storage 1518, 6061
Switzerland 6826
UK 407
varietal reactions 3732, 6061
*Erwinia carotovora* subsp. *carotovora*
China 6060
control 6604
detection 408
Haryana 3732
nitrogen 2848
resistance 3733, 6060
varietal reactions 3732
*Erwinia chrysanthemi*
detection 4530
enzymes 4292
pathogenicity 4292
Switzerland 6826
fungi
roots 6815
Russia 4518
soil management 6813
UK 6815
fungicide residues, determination 8105
*Fusarium*
fungicide tolerance 2162
storage 1509, 2162
varietal reactions 1509
*Fusarium oxysporum* f.sp. *tuberosi*
pathogenicity 403
South Africa 403
vegetative compatibility groups 403
*Fusarium roseum* var. *sambucinum*, soil pH 982
*Fusarium solani*
environmental factors 2845
varietal reactions 2845
*Fusarium solani* var. *coeruleum*
fungicide tolerance 984
Germany 981
soil pH 982
storage 2844
UK 984
varietal reactions 2844
*Geotrichum candidum*
Belarus 405
fungicide tolerance 4952
storage 405
USSR 985
*Gibberella cyanogena*
fungicide tolerance 981
Germany 981
*Gibberella pulicaris*
Belarus 397
biological control 397
pathogenicity 3728
phytoalexins 215, 3728
storage 2844, 3728
varietal reactions 2844
*Glomus fasciculatum*, mycorrhizas, phosphorus 3334, 4148
*Helminthosporium solani*
Belarus 2163
control 6046, 6048, 8493
storage 6046, 6048, 8493
*Macrophomina phaseolina*
Assam 6045
enzymes 8492
manganese, toxicity, Florida 4278

**Potatoes** *cont.*
mosaic, reviews 6035
mycorrhizas, Honshu 7296
*Periconia narsapurensis*, Assam 6045
pesticide residues
analysis 1226
Germany 2472
*Phoma*
Assam 6045
control 6048
storage 6048
*Phoma exigua*
control 1514
Russia 1514
storage 1514
*Phoma exigua* var. *foveata*
Hungary 1515
varietal reactions 1515
*Phoma herbarum*, Assam 6045
*Phyllosticta*, Assam 6045
phytoalexins, elicitors 3722
*Phytophthora infestans*
assessment 976
biochemistry 4520
breeding 7641
British Columbia 6051
control 398, 975, 978, 1511, 2158-2159, 2838, 3716, 3718, 4521-4523, 4525, 6050, 6053-6054, 6450, 6818, 6820, 7642-7645, 8491
elicitors 2160, 3720, 8487
enzymes 6816
fertilizers 979, 4522
forecasting 1510, 3717, 3719, 7647
fungicide tolerance 399, 1511, 2839-2841, 3716, 6051, 6817, 8489
genetics 2834
Germany 134, 2841, 3719, 5292
Hokkaido 6817
host parasite relationships 2160, 2835, 4520, 6816, 8487
human population 2833
hypersensitivity 3720, 7646
*in vitro* culture 4523
infection 4521
Irish Republic 2833, 7642
Israel 399
Japan 8488
light 6819
mating types 8488
Mexico 231, 2156, 3715
models 134, 137, 1510
molecular genetics 977, 4519, 4524
morphology 8488
New York 3715, 3717
pathogenesis-related proteins 3714, 4519
pathogenicity 3715
population dynamics 1512, 5292
population genetics 231
races 2156, 3721
remote sensing 7424
reviews 6052
Russia 398, 2159
selection 5291
spread 8490
storage 1509
survival 399
Sweden 975, 1352, 7643, 7645
Switzerland 137
tissue culture 5291
toxins 6821
UK 2837, 6818, 8489
USSR 1512, 2158
Uttar Pradesh 6822
varietal reactions 1509, 2836-2837, 3715, 6819, 6821-6822
Venezuela 3721
Washington 6051
pink eye
Maine 6056
mixed infections 6056
*Polyscytalum pustulans*
fungicide tolerance 984
UK 984
potato leaf roll luteovirus
breeding 4512, 6036
Canada 8479
control 2827
cultural methods 8476

**Potatoes** *cont.*
potato leaf roll luteovirus *cont.*
detection 6038, 6806, 7422
electrophoresis 6040
elimination 7635
epidemiology 6034
forecasting 6037
genetic transformation 2562
heat treatment 4516
immunodiagnosis 1504, 8477
India 5287
Iran 6805
models 6037
movement 5286
Pakistan 8477
Poland 6036
purification 8477
resistance 391, 2562, 5286, 8478
reviews 6039
spread 2151
strains 5287
Sudan 972
survival 6034
tissue culture 2827, 4516
transmission 5287
UK 2151, 8478
USA 8479
varietal reactions 972, 6040-6041, 8478
Washington 6034
yield losses 972
potato M carlavirus
breeding 6036
Poland 6036
potato mop-top furovirus
coat proteins 8484
monoclonal antibodies 8484
purification 8484
potato S carlavirus
detection 2155, 3712
DNA probes 2155
elimination 7635
heat treatment 4516
Iran 6805
strains 1507
Sudan 972
tissue culture 4516
varietal reactions 972
yield losses 972
potato spindle tuber viroid
detection 2154, 5098, 5288, 6804
DNA 974
environmental factors 5290
genetic transformation 974
Mexico 6804
pollen 396
seeds 396
transmission 396
varietal reactions 5289-5290
potato V potyvirus, breeding 4514
potato X potexvirus
breeding 4512, 4514
detection 3712, 6806
electrophoresis 6040
genetic transformation 973, 1505
host parasite relationships 392
immunodiagnosis 2828
induced resistance 1505
inoculation 4515
Iran 6805
Mexico 6808
mixed infections 3711
photosynthesis 392
reservoir hosts 6808
resistance 973
screening 4515
strains 2824
Sudan 972
testing 8480
Turkey 2824
varietal reactions 972, 6040, 8474, 8480-8481
yield losses 972
potato Y potyvirus
breeding 4512, 6036
Canada 2153, 2829
coat proteins 6809, 6811
cyclic fluctuations 394
Denmark 7638
detection 3712, 6038, 6806
epidemiology 394

**Potatoes** *cont.*
potato Y potyvirus *cont.*
eradication 2153
forecasting 6037
genetic transformation 6809
heat treatment 4516
identification 1506
immunodiagnosis 1504
inoculation 4515
Iran 6805
isolates 6810
Japan 6811
Korea Republic 395
mixed infections 3711
models 393, 6037
New Brunswick 394
Poland 6036, 6810
screening 4515
serology 2829, 6811
strains 395, 2829, 6811, 7639
Sudan 972
Sweden 1352, 8482-8483
symptoms 7640
tissue culture 4516
transmission 395, 6044, 7638
UK 7639
USA 2829
varietal reactions 972, 6041-6042, 6044, 7639, 8474
vectors 8482
yield losses 972, 6042
Yugoslavia 6043-6044
*Pseudomonas fluorescens*, survival 669
*Pseudomonas solanacearum*
breeding 6827
genetic transformation 6829
genetics 4529, 6828
molecular genetics 8497
population dynamics 3734
UK 7653
varietal reactions 3734
*Rhizobium*, Chile 2831
*Rhizoctonia solani*
biological control 401-402
control 3723, 3725, 5294, 6823
economics of control 402
Honshu 5293
Mexico 6823
quality 3724
varietal reactions 400
yield losses 400, 3724
rust, aetiology 7634
*Sclerotinia sclerotiorum*
cultural methods 8250
South Africa 7649
UK 8250
*Spongospora subterranea*
Chile 2831
distribution 2830
epidemiology 2830
immunodiagnosis 4527
karyotypes 5297
Turkey 406
ultrastructure 5297
varietal reactions 406
Washington 2830
zinc 6058
storage decay
biological control 7428
China 8485
control 1366-1367, 1501-1502, 1508, 6047, 8485
diagnosis 1364
drying 6814
environmental factors 1365
fertilizers 1503
latent infections 1364
Latvia 1502
Russia 1363, 1367
yield losses 5283
storage disorders, control 3736
*Streptomyces*
characteristics 1522
control 1521
Quebec 1522
Siberia 1521
storage 1521
strains 3735
taxonomy 3735
*Streptomyces acidiscabies*
characteristics 1522

**Potatoes** *cont.*
*Streptomyces acidiscabies cont.*
Quebec 1522
*Streptomyces aureofaciens*, Uttar Pradesh 3731
*Streptomyces scabies*
breeding 986
characteristics 1522
control 404
Czechoslovakia 986
defence mechanisms 3729
environmental factors 404
fertilizers 6825
histopathology 1523
morphology 3729
Quebec 1522
symptoms 404
toxins 7654
varietal reactions 1523
*Synchytrium endobioticum*
breeding 980
detection 6055
estimation 2842
Germany 2842, 7648
inoculum 6055
pathotypes 7648
resistance 980
screening 7648
varietal resistance 2842
tobacco mosaic tobamovirus, varietal reactions 8481
*Verticillium albo-atrum*
Maine 6056
mixed infections 6056
*Verticillium dahliae*
breeding 5295
distribution 2830
epidemiology 2830
irrigation 2843
Maine 6056
mixed infections 6056
models 1513
Nematoda 1513
Oregon 2843
rotations 3726
screening 2161
suppressive soils 3727
toxins 2161
tubers 5296
Washington 2830, 3726
yield losses 1513, 2843
viruses
antiviral agents 6807
Chile 7636
coat proteins 390
control 2825
detection 7637
genetic transformation 4513
identification 8475
immunodiagnosis 2826
indicator plants 2823
meristem culture 2825
resistance 390
Russia 5285
training courses 7637
Turkey 2824
varietal reactions 7636
***Potorous tridactylus***, epidemiology, *Eucalyptus*, mycorrhizas 1843
**Powdery mildews**
plants, Hungary 5039
spore germination
volatile compounds 6520
water 1875
taxonomy, conidia 7376
***Pratylenchus***, interactions, *Verticillium* 3475
***Pratylenchus goodeyi***, interactions, *Xanthomonas campestris* pv. *musacearum*, bananas 8646
***Pratylenchus penetrans***
interactions
*Gibberella avenacea*, *Trifolium pratense* 3669
*Verticillium dahliae*, potatoes 1513
***Primula palinuri***
cucumber mosaic cucumovirus
characteristics 3180
Italy 3180
**Probenazole**, control, *Pyricularia oryzae*, rice 4423-4424
**Proceedings** (*see* Conferences)

**Prochloraz**
activity
*Botrytis cinerea* 1811, 2463
*Cladosporium cucumerinum* 2463
*Claviceps purpurea*, triticale 3592
*Cochliobolus sativus*, wheat 5157
*Fusarium culmorum* 2463
*Fusarium oxysporum* f.sp. *lycopersici* 2463
*Gaeumannomyces graminis* var. *tritici*, wheat 2640
*Glomerella cingulata* 2463, 6160
guavas, wilt 7805
*Pesalotiopsis funerea* 8793
*Pseudocercosporella herpotrichoides*, cereals 7443
*Pyrenophora teres* 1811
*Rhizoctonia solani* 2463
wheat 2640
*Ustilago zeae* 1811, 2463
control
*Acremonium*, melons 7721
*Alternaria linicola*, linseed 3892
avocados, postharvest decay 8662
*Botrytis*, tulips 6346
*Botrytis cinerea*, linseed 3892
*Cochliobolus sativus*, wheat 7456
*Drechslera poae*, *Poa pratensis* 4450
*Erysiphe cichoracearum*, tobacco 5506
*Erysiphe graminis*, wheat 6603
*Fusarium*, wheat 3512
*Fusarium culmorum*, wheat 2682, 7456
*Gibberella zeae*, wheat 6674
*Glomerella cingulata*, coffee 6268
kiwifruits, storage decay 3808
*Leptosphaeria maculans*, rape 518, 2296, 7815
*Leptosphaeria nodorum*, wheat 268, 2016, 4343, 7473
*Litchi chinensis*, storage decay 3029-3031
mangoes, diseases 7801
*Mycogone perniciosa*, mushrooms 5604
*Mycosphaerella graminicola*, wheat 268, 2016, 7473
*Nectria galligena*, apples 6148
*Oidium lini*, linseed 3892
*Pseudocercosporella herpotrichoides*, wheat 2681, 3512, 5881
*Puccinia brachypodii* var. *poae-nemoralis*, *Poa pratensis* 4450
*Puccinia poarum*, *Poa pratensis* 4450
*Pyrenophora dictyoides*, *Festuca pratensis* 6754
*Pyrenophora graminea*, barley 2041
rape, diseases 2297
*Rhizoctonia solani*, wheat 3512
*Rhynchosporium secalis*, barley 3585, 5899
sunflowers, diseases 4708
*Trifolium pratense*, root rots 8420
wheat, diseases 835, 3515, 3518, 6641, 8285, 8323
fungicide tolerance
*Glomerella cingulata* 6268
*Pseudocercosporella herpotrichoides* 2681, 3552, 7477, 8261, 8317
seed treatment, wheat 7456
volatilization
*Phaseolus vulgaris* 8085
soil 8085
***Procontarinia schreineri***, epidemiology, *Glomerella cingulata*, mangoes 1609
**Procymidone**
control
*Botrytis allii*, onions 2175
*Botrytis cinerea*
grapes 2994
strawberries 5420, 7774
tomatoes 6099, 6870
*Didymella lycopersici*, tomatoes 7684
*Fusarium oxysporum* f.sp. *cepae*, onions 2175
groundnuts, diseases 7032
*Phomopsis*, sunflowers 3051
*Pyrenochaeta terrestris*, onions 2175
*Sclerotinia sclerotiorum*, sunflowers 3897
**Procymidone** *cont.*
control *cont.*
*Sclerotium cepivorum*
garlic 3747
onions 4545
sunflowers, diseases 4708
fungicide residues
grapes 2994
honey 5420
pollen 5420
fungicide tolerance
*Botrytis cinerea* 2994, 6189, 7774, 8089
*Didymella lycopersici* 7684
**Propamocarb**, control, *Phytophthora infestans*, potatoes 975
**Propiconazole**
activity
adjuvants 7239
*Botrytis cinerea* 1811, 7239
*Gaeumannomyces graminis* var. *tritici*, wheat 2640
guavas, wilt 7805
*Koleroga noxia* 7866
pineapples, diseases 509
*Pyrenophora teres* 1811
*Rhizoctonia solani*, wheat 2640
rye, diseases 2622
*Septoria apiicola* 7239
*Trifolium repens* 340
*Ustilago zeae* 1811
wheat, diseases 2622
control
barley, diseases 2027, 5887
*Ceratocystis fagacearum*, *Quercus* 1699
*Cladosporium caryigenum*, pecans 4692-4693
*Claviceps purpurea*, *Poa pratensis* 8401
*Corticium rolfsii*, groundnuts 1102
*Drechslera poae*, *Poa pratensis* 4450
*Erysiphe betae*, sugarbeet 3918
*Erysiphe graminis*, wheat 1387, 2639
*Ganoderma boninense*, oil palms 2315
*Gibberella zeae*, wheat 855, 6674
*Glomerella cingulata*
pecans 4693
strawberries 7771
hops, diseases 8832
*Leptosphaeria nodorum*, wheat 268, 1387, 4343, 6660
*Mycosphaerella graminicola*, wheat 268, 7472
*Phytophthora palmivora*, cocoa 557
*Puccinia brachypodii* var. *poae-nemoralis*, *Poa pratensis* 4450
*Puccinia horiana*, chrysanthemums 4867
*Puccinia poarum*, *Poa pratensis* 4450
*Puccinia recondita*, wheat 845, 2641, 6642
*Puccinia striiformis*
barley 7486
wheat 2639, 6642
*Pyrenophora dictyoides*, *Festuca pratensis* 6754
*Pyrenophora tritici-repentis*, wheat 4308
*Rhynchosporium secalis*, barley 3585, 5899
rice, diseases 7535
*Rigidoporus lignosus*, *Hevea brasiliensis* 8746
sugarcane, diseases 1110
*Tilletia indica*, wheat 5867
triticale, diseases 5183
*Ustulina deusta*, *Hevea brasiliensis* 2368
wheat, diseases 835, 838, 3515, 6641, 8285
fungicide tolerance
*Erysiphe graminis* 8331
*Rhynchosporium secalis* 6687
**Propineb**
control
*Alternaria alternata*, potatoes 8495
*Didymella lycopersici*, tomatoes 7684
*Erysiphe polygoni*, *Phaseolus* 6609
**Propineb** *cont.*
control *cont.*
*Heterosporium echinulatum*, carnations 3183
*Phytophthora infestans*, tomatoes 6609
fungicide residues
fruit 78
vegetables 78
**Propionic acid,** control, maize, storage decay 3595
**Propolis**
activity
*Corticium rolfsii*, soyabeans 5841
*Sclerotinia sclerotiorum*, sunflowers 5841
**Proso millet** (*see Panicum miliaceum*)
***Prosopis cineraria***
plant extracts
antifungal agents 2813
antiviral agents 7057
***Protea***
*Ophiostoma capense*
South Africa 7131
taxonomy 7131
*Phytophthora cinnamomi*, biological control 3997
***Protea repens***, *Mycosphaerella bellula*, South Africa 7359
***Protomyces macrosporus***
*Coriandrum sativum*
control 8828
Himachal Pradesh 8828
***Protoventuria barriae***
*Vaccinium*
North America 4637
taxonomy 4637
***Prumnopitys andina***
mycorrhizas
Chile 5702
morphology 5702
**Prumycin,** activity, fungi 31
**Prune dwarf ilarvirus**
almonds
California 8255
Italy 7012
varietal reactions 7012
apricots, Italy 2237, 6156
cherries, immunodiagnosis 6140
cucumbers, transmission 1027
peaches
California 8255
immunodiagnosis 6140
Yugoslavia 6163
plums, immunodiagnosis 6140
*Prunus spinosa*, Yugoslavia 3833
***Prunus***
mycoplasma-like organisms, susceptibility 5407
plum pox potyvirus
detection 7267
quarantine 7267
*Pseudomonas syringae* pv. *morsprunorum*, control 1058
***Prunus amygdalus*** (*see* Almonds)
***Prunus armeniaca*** (*see* Apricots)
***Prunus avium*** (*see* Cherries)
***Prunus cerasifera*** (*see* Plums)
***Prunus cerasus*** (*see* Cherries)
***Prunus davidiana***, *Leucostoma cinctum*, breeding 2977
***Prunus divaricata***
*Uncinuliella rosae* var. *pruni*
taxonomy 6155
Xinjiang 6155
***Prunus domestica*** (*see* Plums)
***Prunus dulcis*** (*see* Almonds)
**Prunus dwarf ilarvirus,** peaches, Italy 1587
***Prunus mume*** (*see* Apricots)
**Prunus necrotic ringspot ilarvirus**
almonds
California 8255
Italy 7012
varietal reactions 7012
apricots
Italy 2236-2237, 2969
symptoms 2236
*Chenopodium quinoa*, detection 1583
cherries, detection 1583, 5408
cucumbers
detection 1583

**Prunus necrotic ringspot ilarvirus** *cont.*
cucumbers *cont.*
transmission 1027
hops
detection 5598-5599
environmental factors 5599
Germany 7982
New Zealand 4886
Poland 5598
reinfection 7982
peaches
California 8255
detection 1583
Italy 1587
plums
detection 6940
micropropagation 6940
varietal reactions 6157
*Prunus spinosa*, Yugoslavia 3833
reviews 6936
***Prunus persica*** (*see* Nectarines; Peaches)
***Prunus salicina***
mycoplasma-like organisms
Germany 1055
transmission 1055
***Prunus serotina***
air pollution, growth 1696
*Chondrostereum purpureum*
biological control 5618, 8849
Netherlands 5618, 8849
***Prunus serrulata***
mycoplasma-like organisms
Germany 1055
transmission 1055
***Prunus spinosa***
plum pox potyvirus, Yugoslavia 3833
prune dwarf ilarvirus, Yugoslavia 3833
prunus necrotic ringspot ilarvirus, Yugoslavia 3833
***Pseudocercospora***
China 8173
India 6552
taxonomy 5042, 6552, 8173
China 5788
descriptions 756
***Pseudocercospora abelmoschi***
okras
control 5385
Sikkim 5385
***Pseudocercospora adinandrae***, taxonomy, China 5788
***Pseudocercospora amoorae***
*Amoora rohituka*
taxonomy 749
West Bengal 749
***Pseudocercospora amphacodes***, taxonomy, new combination 7361
***Pseudocercospora asteracearum***, Andhra Pradesh 3398
***Pseudocercospora atromarginalis***
taxonomy 756
West Bengal 756
***Pseudocercospora baliospermi***
taxonomy 756
West Bengal 756
***Pseudocercospora bretschneiderae***, taxonomy, China 5788
***Pseudocercospora cissi***
*Cissus*
India 7366
taxonomy 7366
***Pseudocercospora cladrastidis***
*Maackia amurensis*
China 5787
taxonomy 5787
***Pseudocercospora cocculi***
taxonomy 756
West Bengal 756
***Pseudocercospora dendrobii***
*Dendrobium*
control 7143
Taiwan 7143
***Pseudocercospora filiformis***
*Pulsatilla cernus*
China 5787
taxonomy 5787
***Pseudocercospora geraniacearum***, taxonomy, new species 7361
***Pseudocercospora gymnematis***, *Gymnema sylvestre*, West Bengal 751
***Pseudocercospora heveae***, *Hevea*, São Paulo 7079
***Pseudocercospora jasminicola***
taxonomy 756
West Bengal 756
***Pseudocercospora macleyae***
*Macleya cordata*
China 5784
taxonomy 5784
***Pseudocercospora moracearum***, Andhra Pradesh 3398
***Pseudocercospora polygonicola***
taxonomy 756
West Bengal 756
***Pseudocercospora pongamiae-pinnatae***
*Pongamia pinnata*
Andhra Pradesh 1925
taxonomy 1925
***Pseudocercospora psidii***
guavas
taxonomy 751
West Bengal 751
***Pseudocercospora punctata***
*Eugenia*, taxonomy 1924
new combination, taxonomy 1924
***Pseudocercospora purpurea***
avocados
control 2280-2281
South Africa 2281
***Pseudocercospora rhoina***, *Rhus*, West Bengal 751
***Pseudocercospora riachueli***
taxonomy 756
West Bengal 756
***Pseudocercospora rungiae***, Andhra Pradesh 3398
***Pseudocercospora sieberiana***
*Cassia occidentalis*
Andhra Pradesh 7384
taxonomy 7384
***Pseudocercospora sordida***, *Tecoma stans*, West Bengal 751
***Pseudocercospora stizolobii***
taxonomy 756
West Bengal 756
***Pseudocercospora takiensis***
*Pachyrhizus angulatus*
taxonomy 749
West Bengal 749
***Pseudocercospora tephrosiae***, *Tephrosia villosa*, Andhra Pradesh 3674
***Pseudocercospora terminaliae***
taxonomy 756
West Bengal 756
***Pseudocercospora toonae***
*Toona sinensis*
China 8173
taxonomy 8173
***Pseudocercospora tylophoricola***
*Tylophora*
India 6552
taxonomy 6552
***Pseudocercospora varia***
*Viburnum sargentii*
China 5787
taxonomy 5787
***Pseudocercosporella***, Uttar Pradesh 1905
***Pseudocercosporella anguioides***
wheat
epidemiology 8281
UK 8281
***Pseudocercosporella capsellae***
radishes, Japan 6837
rape, inoculation 4701
***Pseudocercosporella herpotrichoides***
*Aegilops*
breeding 3497
resistance 3497
barley
crop mixtures 6631
fungicide tolerance 2628
Germany 2628, 7484
integrated control 7484
cereals
antagonists 8263-8264
control 7443
Denmark 7446
detection 7446
Europe 8261
France 7443
fungicide tolerance 8261
***Pseudocercosporella herpotrichoides*** *cont.*
cereals *cont.*
immunodiagnosis 5848
reviews 825
set-aside 7440
Sweden 1352
diagnosis 4229
*Elymus repens*, pathotypes 823
molecular genetics
DNA 3377
isolates 3377
restriction fragment length polymorphism 3377
*Pseudomonas fluorescens*, antagonism 8263
rye
identification 1377
isolates 1377
pathotypes 823
*Streptomyces griseoviridis*, antagonism 8263
*Trichoderma*, antagonism 8264
triticale, varietal reactions 8344
*Triticum*
breeding 3497
resistance 3497
wheat
biological control 275
breeding 3497, 3506, 4307
Bulgaria 6668
control 2681, 3512, 5881, 7457, 7478
crop mixtures 6631
Czechoslovakia 3550
epidemiology 2647, 8281
Ethiopia 2021
forecasting 7478, 8269
France 3552, 7477, 8317
fungicide tolerance 2628, 3552, 7477, 8317
genetics 5164, 8315
Germany 2628, 2681, 4311, 7457
identification 1377
immunodiagnosis 8318
intensive cropping 4311
isolates 1377
nitrogen 2647
pathotypes 823
proteins 8316
resistance 3497
rotations 2643, 3510
Switzerland 8269
tillage 2643, 3510
UK 8281, 8318
varietal reactions 2021, 2647, 3550-3551, 6667
Victoria 3510
***Pseudocercosporella holarrhenae***, taxonomy, new species 1905
***Pseudocercosporella indica***, taxonomy, new species 1905
***Pseudocercosporella litseae***, taxonomy, new species 1905
***Pseudocercosporella myrtacearum***, taxonomy, new species 1905
***Pseudocercosporella shoreae***, taxonomy, new species 1905
***Pseudomonas***
activity
*Botrytis cinerea*
cabbages 6078
grapes 6187
*Capsicum* 227
*Gaeumannomyces graminis*, wheat 5163
antagonism
*Alternaria solani* 668
*Aspergillus niger* 668
*Cochliobolus miyabeanus* 668
*Erwinia carotovora* subsp. *carotovora* 5230
fungi 8147
*Fusarium* 282
*Fusarium oxysporum* f.sp. *ciceris* 668
*Fusarium oxysporum* f.sp. *lycopersici* 3775
*Fusarium udum* 668
*Macrophomina phaseolina* 668
*Phytophthora capsici* 3246
*Phytophthora nicotianae* var. *parasitica* 3246
plant pathogens 8034

***Pseudomonas*** *cont.*
antagonism *cont.*
*Rhizoctonia solani* 3246
*Xanthomonas campestris* pv. *cyamopsidis* 4508
apples
antibiotic resistance 2933
New York 2933
*Capsicum*
Costa Rica 442
insects 442
cherries, British Columbia 3843
control
*Alternaria solani*
lucerne 2615
tomatoes 2615
*Aspergillus niger*, plums 668
*Cochliobolus miyabeanus*, rice 668
crops, diseases 3482, 6607
*Erwinia amylovora*, *Crataegus monogyna* 4859
*Gaeumannomyces graminis* var. *tritici*, wheat 273
*Penicillium*, oranges 5442
*Phoma medicaginis*
lucerne 2615
tomatoes 2615
*Pinus*, damping off 601
plant diseases 9
reviews 3245
*Pleospora tarda*
lucerne 2615
tomatoes 2615
*Pseudocercosporella herpotrichoides*, wheat 275
*Pseudomonas plantarii*, rice 5230
*Pseudopeziza medicaginis*
lucerne 2615
tomatoes 2615
*Pythium*
maize 2068
tulips 618
*Pythium ultimum*
cotton 569, 5515
sugarbeet 3925
*Rhizoctonia solani*, cotton 569, 5515
*Coriandrum sativum*, Yugoslavia 4015
crops, control 1962
Cruciferae, Zhejiang 1542
genes
nomenclature 3242
virulence 3242
identification 6393, 7183
laboratory tests
antibiotics 4055
fungicides 4055
molecular biology, books 8026
molecular genetics
biological control 3925
enzymes 1788
nucleotide sequences 4061, 7197
plasmids 6405
siderophores 5653, 6406
pears
antibiotic resistance 2933
New York 2933
phylogeny 6
polyamines 6
production, antibiotics 2998, 5699
siderophores 8034
taxonomy 7198
biochemistry 3244
molecular genetics 4061
wheat
antagonists 282
seeds 282

***Pseudomonas aeruginosa***
antagonism, *Pythium* 6869
control, *Pythium*, tomatoes 6869
siderophores 6869

***Pseudomonas alcaligenes***
control
cotton, diseases 3480
*Phaseolus vulgaris*, diseases 3480
tomatoes, diseases 3480

***Pseudomonas amygdali***, production, cytokinins 3248

***Pseudomonas andropogonis***
maize
Taiwan 5927
Venezuela 2722

***Pseudomonas andropogonis*** *cont.*
*Ruscus*, Japan 7141
sorghum, Venezuela 2722
*Trifolium repens*
assessment 7582
epidemiology 4457
North Carolina 2096, 7582
tulips
Japan 7970
symptoms 7970

***Pseudomonas aureofaciens***
control
*Clavibacter michiganensis* subsp. *sepedonicus*, potatoes 6063
*Gaeumannomyces graminis* var. *tritici*, wheat 852, 5162
molecular genetics, antibiotics 852

***Pseudomonas avenae***
biochemistry, lipopolysaccharides 1203
*Caryota mitis*
control 8821
Florida 8821
maize
Taiwan 5927
Venezuela 2722
sorghum, Venezuela 2722

***Pseudomonas caryophylli***, carnations, host parasite relationships 2411

***Pseudomonas castaneae***, rice, seeds 6712

***Pseudomonas cepacia***
activity, *Gibberella fujikuroi*, maize 1420
*Agaricus bitorquis*, symptoms 5605
antagonism, plant pathogens 4060, 4926, 5003
control
apples, postharvest decay 2222
*Botrytis cinerea*, sugarbeet 8712
*Gibberella fujikuroi*, maize 1421
maize, diseases 1413
*Penicillium expansum*, sugarbeet 8712
*Phytophthora cinnamomi*, *Protea* 3997
*Phytophthora megasperma* f.sp. *medicaginis*, chickpeas 6800
*Sclerotinia sclerotiorum*, sunflowers 7017
molecular genetics, genetic transformation 4926

***Pseudomonas cichorii***
cabbages, phytoalexins 5315
chrysanthemums, transmission 8814
*Pelargonium hortorum*, Iran 1737
turnips, phytoalexins 4551

***Pseudomonas cissicola***, taxonomy 1215

***Pseudomonas corrugata***
control, *Gaeumannomyces graminis* var. *tritici*, wheat 6665
horticultural crops, Italy 3486
tobacco, hypersensitivity 8251
tomatoes
Argentina 6111
control 7691
North Carolina 5341
symptoms 6856
*Trifolium repens*, hypersensitivity 8251

***Pseudomonas fluorescens***
activity
cotton, bacteria 574
fungi 11
grapes, iron 3862
*Leucostoma cinctum*, apricots 2971
*Pseudomonas syringae* pv. *syringae*, apricots 2971
antagonism
*Agrobacterium tumefaciens* 2447
*Alternaria brassicicola* 3751, 4553
*Botrytis cinerea* 3751, 4553
*Fusarium oxysporum* f.sp. *pisi* 5125
*Fusarium solani* 5125
*Gaeumannomyces graminis* 5125
*Pseudocercosporella herpotrichoides* 8263
*Pythium diclinum* 7117
*Pythium tracheiphilum* 7117
*Rhodococcus fascians* 2447
*Xanthomonas campestris* 2447
apples, vectors 7729
biochemistry, enzymes 4927
*Capsicum*
Costa Rica 442
insects 442

***Pseudomonas fluorescens*** *cont.*
carnations, host parasite relationships 2411
control 5644
*Aphanomyces euteiches* 4484
*Clavibacter michiganensis* subsp. *sepedonicus*, potatoes 6063
*Corticium rolfsii*, *Pinellia ternata* 1745
cotton, diseases 3480
crops, root diseases 666
*Erwinia amylovora*
apples 1041
pears 1041, 3832
*Gaeumannomyces graminis*, wheat 853, 3549
*Gaeumannomyces graminis* var. *tritici*, wheat 852, 8314
*Gibberella avenacea*, flax 5117
*Glomerella cingulata*, mangoes 4680
*Leptosphaeria maculans*, rape 5117
*Leucostoma cinctum*, apricots 2230
*Phaseolus vulgaris*, diseases 3480
*Phytophthora megasperma* f.sp. *medicaginis*, chickpeas 6800
*Phytophthora palmivora*, cocoa 556
plant pathogens 10-11
*Pyricularia oryzae*, rice 5953, 8379
*Pythium*
maize 2068
sugarbeet 542
*Pythium aphanidermatum*, peas 12
*Pythium ultimum*, peas 12
*Rhizoctonia solani*
cucumbers 1565
rape 6233
rice 5953
tomatoes, diseases 3480
molecular genetics
antibiotics 852
enzymes 4927
secondary metabolites 666
pears, vectors 7729
potatoes
survival 669
Ukraine 1516
siderophores 2447
*Ulmus minor*, ice nucleation 4816
wheat, toxins 5885

***Pseudomonas fuscovaginae***
cereals, reviews 2630
rice
Burundi 7527
control 919
environmental factors 7527
seeds 919

***Pseudomonas gladioli***
saffron, Zhejiang 1747
tulips
Japan 7970
symptoms 7970

***Pseudomonas gladioli*** **pv. *alliicola***, rice, seeds 6712

***Pseudomonas gladioli*** **pv. *gladioli***, *Iris*, pathogenicity 5586

***Pseudomonas glumae***
antagonism
plant pathogenic bacteria 6407
*Pseudomonas solanacearum* 6874
control
*Agrobacterium tumefaciens*, rice 6742
*Clavibacter michiganensis* subsp. *michiganensis*, rice 6742
*Erwinia carotovora* subsp. *carotovora*, rice 6742
rice
genetic transformation 6749
*in vitro* culture 2087
pathogenicity 6749
virulence 2087

***Pseudomonas lupini***, lupins, Lithuania 2612

***Pseudomonas maltophila***
antagonism, fungi 3247
control, *Pythium*, sugarbeet 542
molecular genetics, antagonism 3247

***Pseudomonas marginalis***
broccoli
fertilizers 1000
varietal reactions 1000

***Pseudomonas mori***
laboratory tests, fungicides 6953

***Pseudomonas mori*** *cont.*
mulberries, control 6953
***Pseudomonas plantarii***
rice
biological control 5230
control 6711
histopathology 5231
Kyushu 6747
***Pseudomonas pseudoalcaligenes*** **subsp.** ***citrulli,*** watermelons, varietal reactions 5379
***Pseudomonas pseudoalcaligenes*** **subsp.** ***konjaci,*** *Amorphophallus rivieri*, control 5303
***Pseudomonas putida***
antagonism, plant pathogens 5003
control
cotton, diseases 3480
*Fusarium oxysporum* f.sp. *dianthi*, carnations 7138
*Gaeumannomyces graminis* var. *tritici*, wheat 273
*Phaseolus vulgaris*, diseases 3480
*Pinus*, damping off 601
*Pythium ultimum*
peas 938
soyabeans 938
tomatoes, diseases 3480
molecular genetics
genetic engineering 6382
genome analysis 6404
nucleotide sequences 3229
siderophores 6406
*Phaseolus vulgaris*
agglutination 6788
molecular genetics 6788
soil, straw 1893
***Pseudomonas savastanoi,*** taxonomy, new species 3249
***Pseudomonas solanacearum***
aubergines
breeding 2904, 3781
Honshu 7697
mixed infections 2167
selection 3780
varietal reactions 2904
bananas
Colombia 3009, 4661
control 3009
quarantine 5585
reviews 6979
barley, proteins 3493
biochemistry
lipopolysaccharides 1216
polysaccharides 5656
serology 1216
*Capsicum*, screening 6127
groundnuts
Papua New Guinea 1639
varietal reactions 1639
*Heliconia*
Hawaii 5585
quarantine 5459, 5589
Queensland 5459, 5589
races 5585
*Heliconia psittacorum*
isolates 5458
Queensland 5458
host parasite relationships, evolution 665
kenaf
China 5520
seeds 5520
laboratory tests
indole 3316
plant extracts 6602
maize, proteins 3493
molecular genetics
DNA probes 665
enzymes 5654
genome analysis 6404
nucleotide sequences 1202, 5654, 7197, 8035
pathogenicity 1202
virulence 663, 4930
pathogenicity, protein secretion 6391
*Perilla crispa*
spread 8830
Taiwan 8830
polysaccharides, reviews 3226
potatoes
breeding 6827

***Pseudomonas solanacearum*** *cont.*
potatoes *cont.*
genetic transformation 6829
genetics 4529, 6828
molecular genetics 8497
population dynamics 3734
UK 7653
varietal reactions 3734
*Pseudomonas glumae*, antagonism 6407, 6874
pumpkins
Japan 8603
pathogenicity 8603
rootstocks 8603
*Sesbania rostrata*, Malaysia 5238
Solanaceae, control 6411
*Solanum*, selection 3780
tobacco
breeding 1132, 5511, 7070
genetic transformation 5510
induced mutations 8736
pathogenicity 4062
plasmids 4062
resistance 5510
rhizosphere 3942
South Africa 7889
strains 3942, 5512
suppressive soils 4773
Taiwan 5492
varietal reactions 3942, 5511-5512, 7889
tomatoes
antagonists 6874
Bangladesh 439
biological control 8544
breeding 6109
control 4587
grafting 7689
Guadeloupe 2901
latent infections 8568
Martinique 2901
mycorrhizas 1016
Nematoda 2901
pathogenicity 4062
plasmids 4062
resistance 8568
varietal reactions 439
*Zingiber officinale*, tissue culture 4878
***Pseudomonas stutzeri,*** antagonism, *Fusarium oxysporum* f.sp. *raphani* 5034
***Pseudomonas syringae***
apricots, Czechoslovakia 2229
*Arabidopsis thaliana*
host parasite relationships 3241
molecular genetics 3241
barley
epiphytes 1412
ice nucleation 1412
biochemistry
copper 4924
enzymes 1204, 6409
host parasite relationships 6409
citrus, control 4662
control 5644
*Monographella nivalis*, wheat 8280
*Penicillium expansum*, apples 2225
*Pythium ultimum*, wheat 8280
*Coriandrum sativum*, control 3200
cucumbers, ice nucleation 2921
detection 4056
diagnosis 664
estimation 3250
*Foeniculum vulgare*, California 7156
ice nucleation 667, 5645, 5655, 7196
environmental factors 3227
identification 4056
kiwifruits, California 5430
laboratory tests, dodine 1214
maize, Venezuela 2722
melons, France 3811
molecular genetics
ice nucleation 667, 6408
siderophores 6406
ornamental plants
latent infections 7125
tissue culture 7125
pears
control 2967
New Zealand 7743
Spain 2967

***Pseudomonas syringae*** *cont.*
pears *cont.*
survival 2967
*Phaseolus vulgaris*
models 6009
molecular genetics 6787
pathogenicity 6787
sampling 6009
strains 6787
*Ricinis communus*, Yugoslavia 4718
soil
environmental factors 8033
genetic engineering 3387
plasmids 3387, 8033
sorghum, Venezuela 2722
stone fruits, reviews 6938
toxins 664
***Pseudomonas syringae*** **pv.** ***aceris***
*Acer buergerianum*
Japan 7109
taxonomy 7109
***Pseudomonas syringae*** **pv.** ***actinidiae***
*Actinidia arguta*
Japan 8639-8640
pathogenicity 8639
symptoms 8639
*Actinidia kolomikta*, Japan 8640
kiwifruits
Japan 8640
symptoms 8639
***Pseudomonas syringae*** **pv.** ***angulata,*** tobacco, breeding 7052
***Pseudomonas syringae*** **pv.** ***antirrhini,*** taxonomy 1213
***Pseudomonas syringae*** **pv.** ***aptata,*** biochemistry, siderophores 670
***Pseudomonas syringae*** **pv.** ***atrofaciens***
rye
serology 6692
Ukraine 6692
***Pseudomonas syringae*** **pv.** ***atropurpurea***
tobacco
ethylene 3943
toxins 3943
***Pseudomonas syringae*** **pv.** ***avellanae***
hazelnuts
Greece 6229
taxonomy 6229
walnuts, Italy 3039
***Pseudomonas syringae*** **pv.** ***dysoxyli,*** rice, seeds 6712
***Pseudomonas syringae*** **pv.** ***eriobotryae***
loquats
pathogenicity 7746
plasmids 7746
symptoms 6935
yield losses 6935
***Pseudomonas syringae*** **pv.** ***glycinea***
molecular genetics, coronatine 8430
soyabeans
isolates 8430
mixed infections 3677
races 3680
reviews 6001
toxins 8430
yield losses 3677
Yugoslavia 3680
***Pseudomonas syringae*** **pv.** ***japonica,*** taxonomy 13
***Pseudomonas syringae*** **pv.** ***lachrymans***
cucumbers
bacteriophages 2922
control 6137
environmental factors 454
Japan 454, 2922
serology 2922
varietal reactions 6137
horticultural crops, Italy 3486
marrows
Italy 2923-2924
seeds 2924
melons, Himachal Pradesh 3810
molecular genetics
enzymes 655
pathogenicity 655
***Pseudomonas syringae*** **pv.** ***maculicola***
*Arabidopsis thaliana*
ethylene 1201
host parasite relationships 1201
molecular genetics 1787

***Pseudomonas syringae* pv. *maculicola* *cont.***
cauliflowers
control 8517
UK 8517
varietal reactions 8517
Cruciferae, characteristics 6088
molecular genetics, virulence 2446
taxonomy 1213
tomatoes, characteristics 6088
***Pseudomonas syringae* pv. *morsprunorum***
apricots
France 2239
inoculum 2239
cherries
control 1058
edaphic factors 5409
epidemiology 1059
Michigan 5409
Nematoda 5409
testing 1059
varietal reactions 1059, 1586
*Prunus*, control 1058
***Pseudomonas syringae* pv. *oryzae***
rice
Hokkaido 6748
Honshu 7563
***Pseudomonas syringae* pv. *persicae***
peaches
detection 7761
quarantine 7761
***Pseudomonas syringae* pv. *phaseolicola***
bacteriophages 4925, 4928-4929, 4931-4932
IMI distribution maps 3389
molecular genetics
host parasite relationships 662
nucleotide sequences 1202
pathogenicity 1202
*Phaseolus vulgaris*
host parasite relationships 5265-5266
Hungary 3691
induced resistance 947
molecular genetics 5266
screening 2117
varietal reactions 3690
tobacco
genetic transformation 7071
toxins 7071
toxins 371
***Pseudomonas syringae* pv. *pisi***
molecular genetics, virulence 2446
peas
Lithuania 2612
yield losses 8459
***Pseudomonas syringae* pv. *savastanoi***
*Fraxinus*
resistance 1156
testing 1156
*Fraxinus excelsior*
IAA 6410
strains 6410
*Jasminum nudiflorum*
IAA 6410
strains 6410
*Ligustrum japonicum*
IAA 6410
strains 6410
*Nerium oleander*
IAA 6410
strains 6410
olives
IAA 6410
Morocco 4712, 6245
strains 6410
varietal reactions 4712, 6245
*Phillyrea*
IAA 6410
strains 6410
production, cytokinins 3248
taxonomy, DNA 3249
***Pseudomonas syringae* pv. *syringae***
*Actinidia arguta*
Japan 8639
pathogenicity 8639
symptoms 8639
apricots
biological control 2971
control 8621
France 2239
frost injury 2240
Hungary 2241
***Pseudomonas syringae* pv. *syringae* *cont.***
apricots *cont.*
ice nucleation 2241
inoculum 2239
varietal reactions 8621
*Arabidopsis thaliana*
hypersensitivity 4063
phytoalexins 4063
carnations, host parasite relationships 2411
cherries
edaphic factors 5409
Hungary 2241
ice nucleation 2241
Michigan 5409
Nematoda 5409
testing 4624
varietal reactions 1586
cucumbers
induced resistance 3812
salicylic acid 3812
faba beans, Lithuania 2612
molecular genetics
genetic transformation 671
hypersensitivity 3243
nucleotide sequences 3243
*Phaseolus vulgaris*
molecular genetics 6789
pathogenicity 6789
*Pseudomonas glumae*, antagonism 6407
rice
control 919
enzymes 5974
molecular genetics 5974, 8393
pathogenesis-related proteins 8393
seeds 919
tobacco
genetic transformation 6275
host parasite relationships 4776
hypersensitivity 4776
resistance 6275
tomatoes
seeds 6873
survival 6873
toxins, stereochemistry 1217
*Vigna radiata*
plasma membranes 6028
toxins 6028
weeds
seeds 6873
survival 6873
***Pseudomonas syringae* pv. *tabaci***
apples, host parasite relationships 4058
*Phaseolus vulgaris*, host parasite relationships 5264
tobacco
breeding 7052
control 8715
genetic engineering 6276
genetic transformation 6275
genetics 5513
host parasite relationships 4058
resistance 6275
toxins 6276
***Pseudomonas syringae* pv. *tomato***
*Arabidopsis thaliana*
ethylene 1201
host parasite relationships 1201
carnations, host parasite relationships 2411
*Chenopodium album*, toxins 1789
Cruciferae, characteristics 6088
taxonomy 1213
tomatoes
breeding 3778, 6108, 6875
characteristics 6088
control 2199, 6105, 7691
genetics 6108
India 6105
Italy 3778
molecular genetics 2198, 3776-3777, 7692
pathogenicity 3776
resistance 2198, 3777, 7692
seeds 6873
survival 6873
symptoms 6856
toxins 1789, 7690
varietal reactions 7695
weeds
seeds 6873
***Pseudomonas syringae* pv. *tomato* *cont.***
weeds *cont.*
survival 6873
***Pseudomonas syzygii***
cloves
Indonesia 2417, 8829
transmission 2416-2417, 8829
molecular genetics, nucleotide sequences 7197
***Pseudomonas tolaasii*, mushrooms, resistance 4017**
***Pseudomonas viridiflava***
apricots
France 2239
inoculum 2239
*Coriandrum sativum*, control 3200
kiwifruits
California 5430
frost injury 6197
ice nucleation 6197
tomatoes
seeds 6873
survival 6873
weeds
seeds 6873
survival 6873
***Pseudomonas xanthochlora*, antagonism, plant pathogens 4511**
***Pseudoperonospora cubensis***
cucumbers
control 1036, 3763, 3801-3804
culture 451
forecasting 1563
fungicide tolerance 3805, 5377
Germany 134
Honshu 5377
models 134
resistance 6893
Shangdong 6904
Ukraine 1563
varietal reactions 3798, 3802, 6904
Cucurbitaceae
control 4602
ecology 4602
symptoms 7719
Taiwan 4602
fungicide tolerance 5376
Honshu 5376
laboratory tests
diphenylphosphinic amides 6449
dithiolanes 3292
isoprothiolane 3292
marrows
pathotypes 447
virulence 447
melons
control 2920, 3800
India 2920
pathotypes 447
proteins 6897
resistance 6897
virulence 447
***Pseudoperonospora humuli***
hops
control 8832
Czech Republic 4888
forecasting 4888
Germany 7160
models 4888
pathogenicity 7160
root rots 7160
***Pseudopeziza*, *Trifolium repens*, North Carolina 2096**
***Pseudopeziza medicaginis***
lucerne
biological control 2615
Bulgaria 1471
yield losses 1471
tomatoes, biological control 2615
***Pseudopeziza ribis*, black currants, breeding 4635**
***Pseudotsuga menziesii***
*Armillaria ostoyae*
control 2390
stump removal 2390
*Coriolus versicolor*, biological control 3991
diseases, France 2373
*Fusarium*
pathogenicity 5554
seeds 5554

***Pseudotsuga menziesii*** *cont.*
*Gibberella baccata*, Mexico 7123
*Gibberella fujikuroi*, Mexico 7123
*Glomus*, mycorrhizas, Washington 5726
*Hebeloma crustuliniforme*
mycorrhizas
photosynthesis 699
plant water relations 699
*Hebeloma cylindrosporum*
mycorrhizas
France 89
growth 89
*Laccaria laccata*
mycorrhizas
France 89
gas exchange 695
growth 89
photosynthesis 695, 699
plant water relations 699
*Leptographium wageneri*
British Columbia 6324
vectors 6324
mycorrhizas
ecology 3329
mixed infections 7294
nodulation 3329
Oregon 3329
*Oligoporus placenta*, biological control 3166, 3991
*Phellinus weirii*
control 2390
stump removal 2390
*Pisolithus tinctorius*
mycorrhizas
growth 1844
Oregon 1844
*Rhabdocline parkeri*
Oregon 7122
population genetics 7122
*Rhizopogon vinicolor*
mycorrhizas
photosynthesis 699
plant water relations 699
*Suillus*
mycorrhizas
France 89
growth 89
sulfur dioxide
California 594
susceptibility 594
*Thelephora terrestris*
mycorrhizas
France 89
gas exchange 695
growth 89
photosynthesis 695
*Tricholoma magnivelare*, mycorrhizas, physiology 4968
***Psidium guajava*** (*see* Guavas)
***Psophocarpus tetragonolobus*** 2149
viruses, reviews 2100
witches' brooms
Karnataka 2149
mycoplasma-like organisms 2149
***Psylliodes chrysocephala***, interactions, *Leptosphaeria maculans*, rape 7815
***Psyllobora nana***, control, *Euoidium*, sunflowers 4705
***Pteridium aquilinum***
*Stagonospora pteridiicola*
taxonomy 7163
UK 7163
**Pteridophyta**, mycorrhizas, Hawaii 1253
***Pteris longifolia***, *Glomerella cingulata*, Assam 3400
***Pteris vittata***, fungi, rhizosphere 1753
***Pterospermum acerifolium***, *Phomopsis pterocarpi*, Madhya Pradesh 1704
***Puccinia***
host parasite relationships 5006
*Pennisetum americanum*, reviews 1448
Romania 1900
spore germination, environmental factors 729
sugarcane
Kyushu 7041
phenology 7041
urediospores, preservation 3422
wheat
Brazil 2633
breeding 4306, 4315
***Puccinia*** *cont.*
wheat *cont.*
genotype mixtures 1991
integrated control 2633
***Puccinia abrupta* var. *partheniicola***, *Parthenium hysterophorus*, biological control 5616
***Puccinia acroptili***, *Centaurea repens*, Washington 637
***Puccinia allii***
*Allium fistulosum*
forecasting 2174
Honshu 2174
leeks
control 6604
varietal reactions 3745
***Puccinia antirrhini***
*Antirrhinum*
genetic transformation 1963
resistance 1963
*Antirrhinum majus*
genetics 4863
induced mutations 4863
***Puccinia arachidis***
*Arachis*, genetic resources 3067
groundnuts
breeding 4715, 7839
control 3073, 7841
environmental factors 4715
genetic resources 3067
genetics 3065, 5473
host parasite relationships 3906
hyperparasites 6252
intercropping 7830
reviews 6249
screening 5477
survival 7832
Swaziland 5477
Taiwan 4715
varietal reactions 2323-2324, 3906, 7839
soil, survival 7832
***Puccinia asparagi***
asparagus
control 428, 8530
Italy 8530
Washington 428
***Puccinia brachypodii* var. *poae-nemoralis***
*Poa pratensis*
control 2089, 4450
Denmark 2089
varietal reactions 2089
***Puccinia canaliculata***
*Cyperus esculentus*
biological control 4893, 5617, 7997
Maryland 4893
*Cyperus rotundus*, biological control 5617
***Puccinia cardui-pycnocephali***
*Carduus*
biological control 6359
isoenzymes 6359
*Carduus pycnocephalus*, biological control 2421
***Puccinia carduorum***
*Carduus*
biological control 6359
isoenzymes 6359
*Carduus thoermeri*
biological control 8858
Virginia 8858
***Puccinia carthami***
*Carduus*
biological control 6359
isoenzymes 6359
safflower
environmental factors 3056
Iran 7822
seeds 7822
survival 3056
soil
environmental factors 3056
survival 3056
***Puccinia chondrillina***
*Chondrilla juncea*, biological control 3207
weeds, biological control 7168
***Puccinia cnici***
*Cirsium vulgare*
biological control 6360
biology 6360
***Puccinia cnici*** *cont.*
*Cirsium vulgare cont.*
Victoria 6360
***Puccinia coronata***
*Acremonium implicatum*, hyperparasitism 6632
barley
appressoria 1984
Minnesota 2690
Nebraska 2690
North Dakota 2690
resistance 1984
South Dakota 2690
cereals
DNA 1982
races 1982
*Festuca pratensis*
breeding 3660
Switzerland 3660
*Hordeum chilense*
appressoria 1984
resistance 1984
lawns and turf
mowing 1729
mulching 1729
*Lolium multiflorum*
breeding 3662
histopathology 2091
*Lolium perenne*
breeding 3662
fertilizers 930
leaf age 930
oats
biological control 4305
Canada 5904, 8338
control 3588
genetics 5903
genotype mixtures 7444
hyperparasites 6632
Kazakhstan 3588
phytoalexins 6690
population dynamics 8338
resistance 294
varietal reactions 294
virulence 5904, 8338
*Verticillium*, hyperparasitism 6632
wheat
appressoria 1984
resistance 1984
***Puccinia cribrata***
*Vinca minor*
Germany 6555
taxonomy 6555
***Puccinia graminis***
*Aegilops squarrosa*, varietal reactions 860
*Aphanocladium album*, hyperparasitism 843
*Avena fatua*
Canada 5905
races 5905
barley
Canada 5847
genetics 7485, 7487
pathotypes 7487
races 5847
resistance 4360
testing 7487
cereals
DNA 1982
races 1982, 4302-4303
USA 4302-4303
elicitors 154
*Festuca arundinacea*
endophytes 7570
temperature 5233
varietal reactions 5233
haustoria, isolation 1291
karyotypes 1998
*Lolium perenne*, varietal reactions 3664
molecular genetics
infection 2532
RNA 3367
oats
Canada 5905
genetics 873
molecular genetics 4374
races 5905
triticale
Australia 1390
pathotypes 1390

***Puccinia graminis*** *cont.*
triticale *cont.*
Poland 8342
screening 8342
*Verticillium lecanii*, hyperparasitism 843
wheat
Australia 1390
breeding 2653, 8274, 8277
Canada 5847
cell culture 1997
control 1392, 3522
Croatia 3513
Czechoslovakia 3496, 8277
Egypt 2652, 5139
Ethiopia 1993, 8289
genetics 256, 258, 842, 1992-1994, 1996, 2650, 2653, 3496, 3523, 5140, 6644, 8288-8290
haustoria 2654
host parasite relationships 1997
Hungary 1392
India 4317
induced mutations 5138
inoculum 7458
Karnataka 7458
Liaoning 1996
molecular genetics 2651
Netherlands 3520
pathotypes 1390
races 4317, 5847
Republic of Georgia 1391
resistance 5138
reviews 841
spore dispersal 1384, 1391
Uganda 8273
varietal reactions 1389, 1995, 2652, 3523-3526, 5139, 8273
virulence 1993
yield losses 1392, 2652
Zambia 8274
***Puccinia grindeliae***
*Gutierrezia sarothrae*
biological control 4895
New Mexico 4895
teliospores 4895
***Puccinia helianthi***
Jerusalem artichokes
Georgia 5302
screening 5302
sunflowers
Argentina 2303
breeding 2303
control 3047
enzymes 1967
genetic resources 6238
genetics 8675
Israel 3047
reviews 6240
yield losses 3047
***Puccinia hordei***
barley
alternative hosts 8857
appressoria 1984
control 3565, 6450, 8256
Czechoslovakia 3496
Denmark 5892
Egypt 2026
enzymes 8326
genetics 3496, 3566
genotype mixtures 7444
Germany 7484
histology 3503
host parasite relationships 3503
integrated control 7484
models 2031
plant water relations 3569
races 3567, 5892
resistance 1984
selection 8325
South Australia 8857
Tasmania 5176
UK 3567
varietal reactions 5890, 5892
virulence 5176
yield losses 2031, 5890
*Hordeum chilense*
appressoria 1984
histology 863
resistance 1984
varietal reactions 863
***Puccinia hordei*** *cont.*
*Ornithogalum umbellatum*
alternative hosts 8857
South Australia 8857
tritordeum
histology 3503
host parasite relationships 3503
urediospores, isolation 3420
wheat
appressoria 1984
histology 3503
host parasite relationships 3503, 3568
resistance 1984
***Puccinia horiana***
chrysanthemums
biological control 8812
control 4867
reviews 8812
Taiwan 4867
control 7238
***Puccinia imperatae***, *Imperata cylindrica*, Iran 6550
***Puccinia jaceae* var. *diffusa***, *Centaurea diffusa*, Washington 636-637
***Puccinia jackyana***, *Scorzonera calyculata*, Iran 6550
***Puccinia lagenophorae***
*Calendula officinalis*, Germany 7426
*Senecio vulgaris*
Germany 7426
infection 2431
roots 3206
secondary pathogens 7170
***Puccinia melampodii***, *Parthenium hysterophorus*, biological control 5616
***Puccinia melanocephala***
*Imperata arundinacea*, Uttar Pradesh 1643
sugarcane
Colombia 6255
control 1643, 3075
Cuba 2329
environmental factors 1642
Jamaica 7040
Kyushu 7041
Pakistan 3084
phenology 7041
Queensland 1642
races 1642
selection 7040
tissue culture 3075
Uttar Pradesh 1643
varietal reactions 1643, 3080, 4719, 6255
Venezuela 3080
***Puccinia menthae***
host parasite relationships 5006
IMI distribution maps 3389
*Mentha arvensis*, Argentina 7157
*Mentha piperita*, *in vitro* culture 4014
***Puccinia minussensis***, *Lactuca sibirica*, host parasite relationships 7164
***Puccinia paullula* f.sp. *monsterae***, *Monstera deliciosa*, urediospores 8819
***Puccinia persistens***, wheat, varietal reactions 6648
***Puccinia poarum***, *Poa pratensis*, control 4450
***Puccinia polypogonis***
*Polypogon monspeliensis*
histopathology 2093
urediospores 2093
***Puccinia polysora***
IMI distribution maps 3389
maize
environmental factors 4387
forecasting 4387, 5917
genetics 4386
races 4386
Taiwan 4386-4387, 5917
***Puccinia prostii***, tulips, Iran 6550
***Puccinia psidii***, guavas, control 3886
***Puccinia punctiformis***
*Cirsium arvense*
infection 2431
ultrastructure 7165
***Puccinia purpurea***
sorghum
biochemistry 306
breeding 3614
Mexico 3614
***Puccinia purpurea*** *cont.*
sorghum *cont.*
Minas Gerais 1436
resistance 306
Tanzania 4404
varietal reactions 1436, 1445, 3609
***Puccinia recondita***
*Aegilops squarrosa*, varietal reactions 860
*Anchusa italica*
Morocco 1764
reservoir hosts 1764
barley
appressoria 1984
genotype mixtures 3498
histology 3503
host parasite relationships 3503
resistance 1984
cereals
DNA 1982
races 1982
Sweden 1352
Gramineae, varietal reactions 5856
*Hordeum chilense*
appressoria 1984
histology 863
resistance 1984
varietal reactions 863
laboratory tests, azoles 8106
rye
host parasite relationships 5182, 8339
ultrastructure 5182
triticale
Poland 8342
screening 8342
tritordeum
histology 3503
host parasite relationships 3503
*Verticillium psalliotae*, hyperparasitism 6632
*Verticillium tenuipes*, hyperparasitism 6632
wheat
appressoria 1984
biological control 4305
breeding 250, 260, 1395, 2659, 3533, 4320, 5857-5858, 5862, 8274, 8276, 8278, 8294
Canada 2004, 5861
control 835, 1393, 2641, 3530-3531, 4308, 6451, 6642-6643, 7453-7454, 8286
Czechoslovakia 3496
environmental factors 2006, 4327, 5144
epidemiology 832, 5144
Ethiopia 1993, 2000, 8289
fertilizers 835, 4318
forecasting 225, 4326, 5863, 8269
fungicides 845, 6640
genetics 256-257, 259, 261, 840, 844, 1992-1994, 2002, 2005, 2650, 2655-2659, 3496, 3521, 3533, 4314, 4319, 4321-4323, 4328-4329, 5135, 5860, 6645-6646, 7459, 7461, 8288-8291, 8293-8294
genotype mixtures 3498, 7444
Germany 2002
Hebei 8294
histology 3503
host parasite relationships 2001, 3503, 3528, 8292
hyperparasites 6632
India 2005, 4322
induced mutations 5136, 5141, 8278-8279
inoculum 7458
irrigation 5859
Karnataka 2006, 5144, 7458
Mexico 257, 6646
mixed infections 3517
models 4326, 5863
molecular genetics 2651, 3529
Morocco 1764
Netherlands 3520
North Carolina 7453
ozone 832
pathotypes 3532, 7460
population dynamics 845
population genetics 2004

***Puccinia recondita*** *cont.*
wheat *cont.*
races 1394, 2002, 2005, 5862, 8292, 8294
reservoir hosts 1764
resistance 1984, 1999, 5141
reviews 841
Russia 261, 2641, 5863
screening 5143
seed production 4308
selection 8293
spore dispersal 1384
sulfur dioxide 5834
Switzerland 8269
Uganda 8273
UK 3532, 8286
Ukraine 8276
varietal reactions 259, 1389, 1393, 2000, 2003, 3527, 4318, 4324-4325, 4327, 5142, 5856, 5860-5861, 6647, 7454, 7460, 8273, 8300
virulence 1993, 2002, 5861
yield losses 261, 4326, 7454
Zambia 8274
***Puccinia salvii***, *Salvia glutinosa*, Iran 6550
***Puccinia sorghi***
groundnuts
host parasite relationships 3906
varietal reactions 3906
haustoria, isolation 1291
maize
biological control 4305
environmental factors 4387
forecasting 4387, 5917
genetics 1417, 3597, 4385-4386
host parasite relationships 1417
Kenya 4395
molecular genetics 6700
races 4386
São Paulo 6698
Taiwan 4386-4387, 5917
varietal reactions 4395, 6698
molecular genetics, DNA 2536
transmission, maize dwarf mosaic potyvirus 298
***Puccinia striiformis***
*Aegilops kotschyei*
Himachal Pradesh 262
pathotypes 262
barley
appressoria 1984
control 5893, 7486
genetics 4359
Himachal Pradesh 262
Mexico 5893, 7486
pathotypes 262
resistance 1984
seeds 5893
varietal reactions 5891
Gramineae, varietal reactions 5856
*Hordeum chilense*
appressoria 1984
histology 863
resistance 1984
varietal reactions 863
*Triticum dicoccoides*
Israel 8296
Kenya 8296
screening 8296
wheat
appressoria 1984
breeding 2008, 4307, 5857, 7451, 8277
China 8298
control 835, 2639, 4331, 4333, 5866, 6642-6643, 6649, 7454, 8285-8286
Czechoslovakia 3496, 8277
Denmark 5864-5866
environmental factors 3536
epidemiology 3536, 4332
Ethiopia 1993, 6650
fertilizers 835
forecasting 5865, 8269
fungicide tolerance 8297
Gansu 5146
genetic resources 2637
genetics 256-257, 840, 1992-1993, 2660-2661, 3496, 3521, 4314, 5135, 5145, 5147, 7462-7463
***Puccinia striiformis*** *cont.*
wheat *cont.*
genotype mixtures 263, 4332
Himachal Pradesh 262, 7455
host parasite relationships 4330
induced mutations 5136
interactions 3535
Italy 4333
Kenya 8295
Mexico 257
models 5146, 5865, 8298
Netherlands 3520
New Zealand 5147
nuclei 846
pathotypes 262, 5147
races 5864, 8295
resistance 1984, 3535
reviews 841
selection 3534
Switzerland 8269
Tanzania 6649
Uganda 8273
UK 8286, 8297
varietal reactions 1389, 2007, 2660, 5856, 5864, 6649, 7454-7455, 8273, 8295, 8300
virulence 1993
yield losses 263, 7454
***Puccinia substriata* var. *indica***
*Pennisetum americanum*
genetic resources 2070
genetics 2725
Georgia 2725
virulence 2725
***Puccinia substriata* var. *penicillariae***, IMI distribution maps 3389
***Puccinia substriata* var. *penicillariae***
*Pennisetum americanum*
environmental factors 8363
screening 8363
***Puccinia thuemeniana***, *Myricaria germanica*, Iran 6550
***Puccinia xanthii***, *Xanthium occidentale*, environmental factors 3211
**Puerto Rico**
*Albizia lebbek*, *Fusarium* 5544
*Capsicum*, *Leveillula taurica* 2205
*Phaseolus vulgaris*, *Xanthomonas campestris* pv. *phaseoli* 2126
**Pulsan,** control, *Pseudoperonospora cubensis*, melons 3800
***Pulsatilla cernua***
*Pseudocercospora filiformis*
China 5787
taxonomy 5787
**Pumpkin yellow mosaic virus,** pumpkins, Uttar Pradesh 6130
**Pumpkin yellow vein mosaic virus,** pumpkins, Uttar Pradesh 6130
**Pumpkins** (*see also Cucurbita* spp.)
*Didymella bryoniae*, breeding 7714
*Fusarium oxysporum* f.sp. *lagenariae*
Japan 8600
pathogenicity 8600
*Pseudomonas solanacearum*
Japan 8603
pathogenicity 8603
rootstocks 8603
seedborne fungi, Orissa 2918
*Sphaerotheca fuliginea*
breeding 7714
cleistothecia 7717
fungicide tolerance 5373
Indiana 7717
Michigan 5373
susceptibility 4601
viruses, Uttar Pradesh 6130
***Punica granatum*** (*see* Pomegranates)
**Pyracarbolid,** control, *Crinipellis perniciosa*, cocoa 4747
**Pyrazolones**
activity
*Aspergillus niger* 2464, 4097
*Cochliobolus miyabeanus* 2464, 4097
**Pyrazophos**
control
*Erysiphe cichoracearum*, tobacco 5506
mangoes, diseases 7801
***Pyrenochaeta glycines***
soyabeans
Nigeria 6769
varietal reactions 6769
***Pyrenochaeta lycopersici***
lettuces, France 1006
soil
California 7682
edaphic factors 7682
tomatoes
California 7682
edaphic factors 7682
symptoms 6856
***Pyrenochaeta oryzae***, rice, Florida 1459
***Pyrenochaeta quercina***, *Quercus*, Italy 4802
***Pyrenochaeta terrestris***
*Allium*, selection 4542
culture media 5307
onions
control 2175
culture techniques 424
isolates 8506
microsclerotia 8506
selection 4542
sporulation 424
temperature 8506
**Pyrenomycetes**
*Arbutus menziesii*, British Columbia 7988
*Gaultheria shallon*, British Columbia 7988
taxonomy 7372
*Vaccinium parvifolium*, British Columbia 7988
***Pyrenopeziza brassicae***
*Brassica*, conidia 6848
Brussels sprouts
control 8515
UK 8515
rape
control 1090, 2297, 8671
epidemiology 1090
Germany 1090
mutants 4702
pathogenicity 4702
UK 2297, 8671
***Pyrenophora avenae***
*Avena nuda*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
barley
Parana 5846
Rio Grande do Sul 5846
rotations 5846
*Lolium perenne*, seeds 8398
oats
antioxidants 2704
host parasite relationships 2704
mixed infections 8336
Parana 5846
Pennsylvania 8336
Rio Grande do Sul 5846
rotations 5846
yield losses 8336
wheat
Parana 5846
Rio Grande do Sul 5846
rotations 5846
***Pyrenophora brassicae***
molecular genetics
gene expression 5314
genetic transformation 5314
***Pyrenophora bromi***, *Bromus inermis*, USSR 2755
***Pyrenophora dictyoides***
*Festuca pratensis*
control 6754
Lithuania 6754
*Lolium perenne*, seeds 8398
***Pyrenophora graminea***
barley
antagonists 1281
biochemistry 3582
Bulgaria 1410
characteristics 1410
control 1407, 2041, 5897
detection 1375
Egypt 2026, 2041
fertilizers 2042
Gansu 284
Iran 2699

***Pyrenophora graminea*** *cont.*
barley *cont.*
isolates 3582
Italy 3582
physiology 5897
Rajasthan 7492
seeds 1375
USSR 2042
varietal reactions 284, 2041, 3584, 7492
yield losses 2699, 7492
***Pyrenophora hordei***
barley
South Australia 2043
taxonomy 2043
***Pyrenophora lolii, Lolium perenne***, seeds 8398
***Pyrenophora semeniperda***
distribution, reviews 1314
host range, reviews 1314
***Pyrenophora teres***
barley
biological control 286, 6685
breeding 8332
control 1817, 3583
Czechoslovakia 868
Egypt 2026
environmental factors 868
genetics 6684, 8332
Germany 7484
growth 868
integrated control 7484
isolates 2698
Latvia 826
nitrogen metabolism 6686
seeds 286
Slovakia 2698
toxins 2040
yield losses 6684
*Bromus inermis*, USSR 2755
fungicide tolerance, genetics 285
laboratory tests, fungicides 1811
wheat
detection 1989
seeds 1989
***Pyrenophora tritici-repentis***
*Aegilops squarrosa*, varietal reactions 860
Gramineae
Kazakhstan 2624
morphology 2624
taxonomy 2624
USSR 2624
IMI distribution maps 3389
wheat
biological control 5878
Brazil 2633
control 4308, 6641, 7457
crop residues 2680
fertilizers 6662
Germany 7457
integrated control 2633
Kansas 2680, 5878
Mexico 6641
rotations 3472
Saskatchewan 3472
seed production 4308
tillage 2680, 3472
USSR 271
yield losses 2677
***Pyricularia***
*Eleusine coracana*
Madhya Pradesh 2727
seeds 2727
wheat
control 2646
detection 2646
seeds 2646
***Pyricularia costina***
*Costus speciosus*
taxonomy 759
West Bengal 759
***Pyricularia grisea*** *(see Magnaporthe grisea)*
***Pyricularia oryzae*** *(see also Magnaporthe grisea)*
biochemistry, melanin 7313
biology, reviews 2079
laboratory tests
antifungal agents 6719
dithiolanes 3292
fungicides 7241
***Pyricularia oryzae*** *cont.*
laboratory tests *cont.*
isoprothiolane 3292
phosphonates 2466
plant extracts 6464
sodium diethyldithiocarbamate 3643
triazoles 75
tricyclazole 3643
mating types, Yunnan 4422
population genetics, reviews 2079
rice
air spora 1455
biological control 5953, 8379
books 7542
Brazil 4427
breeding 907, 2737, 6734
China 324, 1454
control 325, 330, 1453, 2739, 2743, 3644, 4423-4425, 5219, 5956, 5961-5962, 6451, 6726, 6731, 6733, 7537, 7544, 8373, 8376, 8378
crop growth stage 5956
defence mechanisms 5959
Egypt 4424
environmental factors 331, 913
enzymes 2078, 7547, 8382
estimation 5208
ethylene 2078
fatty acids 5959
fertilizers 7546
forecasting 1452, 2741, 5220, 6731
Fujian 907, 8381
fungicide tolerance 6729
genetic resources 5942
genetics 327, 2076, 2737-2738, 4408, 5217-5218, 7542
genotype mixtures 2075
Himachal Pradesh 3642
Honshu 5220, 6723-6727, 6730
host parasite relationships 334, 910, 2078, 8375
hypersensitivity 2738, 8375
*in vitro* selection 4418
induced resistance 911, 2077
integrated control 5960
isoenzymes 905
isolates 4427, 5958
Japan 1452, 2076, 6728
Karnataka 5213, 6720
Korea Republic 4416
Kyushu 6721
leaf age 2744
Mexico 6734
models 2741, 5956
mutants 8380
nitrogen 6716
pathogenicity 908, 1451, 1454, 4427, 8380
Philippines 5958
phytoalexins 6732
plant extracts 904, 2733, 6718, 7548
plant growth regulators 6732
protoplasts 5221
races 907, 1451, 4424, 6722-6723, 7539, 7541, 8374, 8381
resistance 324, 905, 4419, 5216, 5222, 7542
rotations 4416
Russia 2739
sampling 5943
São Paulo 331, 6722
screening 4417
seed treatment 6717
seeds 330
selection 906
Sichuan 7539
spores 5208
strains 906, 908
susceptibility 2744
temperature 2740
testing 6735
Ukraine 913
varietal reactions 319-320, 328, 1451, 3642, 4415, 4424, 5213, 5216-5217, 5222, 5939, 6720-6721, 6735, 7540-7541, 7545, 8374
yield losses 6730
Yunnan 327
Zhejiang 908, 1455
***Pyricularia oryzae*** *cont.*
weeds
Brazil 4427
isolates 4427, 5958
pathogenicity 4427
Philippines 5958
wheat
Brazil 2633, 4427
integrated control 2633
isolates 4427
pathogenicity 4427
***Pyricularia setariae***
*Eleusine coracana*, varietal reactions 5934
*Setaria italica*, varietal reactions 5201
***Pyricularia zingiberi***
*Zingiber mioga*
Japan 8827
symptoms 8827
*Zingiber officinale*
Japan 8827
symptoms 8827
**Pyrifenox**
activity, *Septoria apiicola* 7248
control, *Pseudoperonospora cubensis*, cucumbers 1036
toxicity, *Ambylseius addoensis* 82
**Pyrimethanil,** control, *Botrytis cinerea*, crops 8095
**Pyrimidines**
activity
*Cochliobolus lunatus* 5695
*Cochliobolus miyabeanus* 7244
*Fusarium oxysporum* f.sp. *lycopersici* 7244
*Fusarium solani* 5695
**Pyroquilon**
control, *Pyricularia oryzae*, rice 5961, 8378
seed treatment, rice 6733
**Pyrrolnitrin**
control
*Botrytis cinerea*, roses 5560
strawberries, storage decay 3850
***Pyrus communis*** *(see* Pears)
***Pyrus pyrifolia*** *(see* Pears)
***Pyrus sylvestris***
*Gymnosporangium*
flavanols 2931
histochemistry 2931
*Venturia pirina*
flavanols 2931
histochemistry 2931
***Pythium***
*Alstroemeria*
Alberta 5584
varietal reactions 5584
*Amaranthus*, Nepal 5976
aubergines, environmental factors 1303
*Bromus inermis*, USSR 2755
*Capsicum*, environmental factors 1303
chrysanthemums, control 3185
*Cissus rhombifolia*, control 7251
cotton
control 1133
seeds 1133
USA 1133
cucumbers
biological control 449, 2216
control 2210, 2880
cultural methods 6902
environmental factors 1303
rockwool 6902
soilless culture 2880
*Eucalyptus grandis*
environmental factors 3135
Kerala 3135
nurseries 3135
*Eucalyptus tereticornis*
control 7909
Uttar Pradesh 7909
groundnuts
Oklahoma 3071
population dynamics 3071
horticultural crops, Denmark 5839
*Impatiens*
integrated control 7958
Maryland 7958
laboratory tests
carbonyl compounds 730
flubenzimine 2465

***Pythium* cont.**
laboratory tests *cont.*
plant extracts 1701
lettuces
control 6853, 7251
hydroponics 6853
seed treatment 7251
lucerne
California 7576
yield losses 7576
maize
biological control 2068
continuous cropping 5239
control 5916
Mexico 5916
ornamental plants
control 7251
suppressive soils 6328
peas, Netherlands 6792
*Phaseolus*, biological control 6783
*Phaseolus vulgaris*
glyphosate 3423
roots 3423
physiology, reviews 6518
*Piper nigrum*
control 7150
environmental factors 7150
*Pseudomonas aeruginosa*, antagonism 6869
rape, cultural methods 1360
rice
control 5952
Louisiana 5952
New South Wales 4435
pathogenicity 4435
safflower
Alberta 1631
host range 1631
sesame
biological control 1107
Korea Republic 1107
Mexico 7037
soil water 7037
soil
control 5916
Japan 8171
Mexico 5916
Ningxia 1899
Oklahoma 3071
population dynamics 3071
South Africa, reviews 1353
squashes, cultural methods 1360
sugarbeet
forecasting 543
Irish Republic 1121
Sweden 543
taxonomy 5789
computer techniques 1917
isoenzymes 1907
morphology 4227
species 6562
tomatoes
biological control 6869
control 2880, 7251
environmental factors 1303
mixed infections 6106
seed treatment 7251
soilless culture 2880, 6106
Switzerland 6106
tulips, biological control 618
ultrastructure, zoospores 4227
vegetables, Ningxia 1899
wheat
cultural methods 7479
glyphosate 3423
mulching 6638
roots 3423
Washington 6638
*Zingiber officinale*, tissue culture 4878
zoospores
calcium 7351
motility 7351
***Pythium acanthicum***
apples, control 2960
China 1313
soil
California 123
isolation 123
***Pythium acanthophoron*, China 1313**
***Pythium aphanidermatum***
carrots, elicitors 2168
***Pythium aphanidermatum* cont.**
*Catharanthus roseus*
elicitors 1878
enzymes 1878
soil solarization 4869
varietal reactions 4869
China 1313
cucumbers
biological control 4606, 5371
control 5372
irrigation 5372
pathogenicity 7724
postharvest decay 5371
transmission 8598
*Cymbopogon winterianus*, India 1183
*Gliocladium roseum*, antagonism 100
*Hardwickia binata*, Tamil Nadu 7927
laboratory tests
fungicides 7241
heat treatment 5774
metal ions 8148
silver 8148
maize
breeding 4378
inoculation 2063
mixed infections 4394
screening 2063
melons, pathogenicity 7724
peas, biological control 12
*Phaseolus vulgaris*
control 6781
plant residues 6781
soil
control 6543, 6781
environmental factors 1303, 6545
Japan 8171
plant residues 6781
survival 6545
soyabeans, epidemiology 5254
spore germination, calcium 1876
tobacco, biological control 4770
*Trichoderma*, antagonism 8167
vegetables, Ningxia 1899
*Zingiber officinale*, Nematoda 8826
***Pythium aristosporum***
lawns and turf, Honshu 2408
soil, Honshu 2408
***Pythium cylindrosporum***
soil
Germany 6551
taxonomy 6551
***Pythium debaryanum*, laboratory tests, plant extracts 1831**
***Pythium diclinum***
*Pinus*
Algeria 7117
antagonists 7117
pathogenicity 7117
*Pseudomonas fluorescens*, antagonism 7117
***Pythium dissotocum*, vegetables, Ningxia 1899**
***Pythium graminicola***
IMI distribution maps 3389
laboratory tests, kojic acid 3291
***Pythium heterothallicum***
molecular genetics
heterothallism 2533
restriction fragment length polymorphism 2533
***Pythium indicum***
*Penicillium*, antagonism 7686
tomatoes, antagonists 7686
***Pythium intermedium*, *Senecio vulgaris*, secondary pathogens 7170**
***Pythium irregulare***
China 1313
lucerne
identification 7578
South Africa 7578
melons, inoculum 7389
*Pinus*, biological control 601
*Pythium oligandrum*, antagonism 3771
soil
environmental factors 1303
Japan 8171
spinach, inoculum 7389
sugarbeet, biological control 542
viruses, RNA 3455
***Pythium iwayamai*, wheat, immunodiagnosis 279**
***Pythium kunmingense***
China 1313
vegetables, Ningxia 1899
***Pythium mamillatum***
China 1313
sugarbeet, biological control 542
***Pythium marinum***
algae
host parasite relationships 5606
infection 5606
*Porphyra*
host parasite relationships 5606
infection 5606
***Pythium middletonii*, *Lablab purpureus*, environmental factors 4505**
***Pythium myriotylum***
*Colocasia esculenta*, Cameroon 418
groundnuts
Oklahoma 1101
soil amendments 7834
Taiwan 7834
tillage 1100
soil, control 5031
tobacco
biological control 4770
Karnataka 3941
*Xanthosoma sagittifolium*
breeding 4536
Cameroon 4536
***Pythium nunn*, activity, *Pythium*, tulips 618**
***Pythium oligandrum***
antagonism
*Pythium irregulare* 3771
*Pythium spinosum* 3771
*Pythium ultimum* 3771
*Rhizoctonia solani* 3771
control
*Aphanomyces cochlioides*, sugarbeet 3469
*Pythium*, tulips 618
*Pythium ultimum*
cress 3469
sugarbeet 3469
tomatoes 3771
*Rhizoctonia solani*, tomatoes 3771
soil
California 123
detection 3386
fungicides 2546, 3386
isolation 123
rotations 3386
***Pythium paddicum*, wheat, immunodiagnosis 279**
***Pythium periplocum***
soil
California 123
isolation 123
***Pythium prolatum*, *Rhododendron*, South Africa 1723**
***Pythium spinosum***
China 1313
melons, inoculum 7389
*Pythium oligandrum*, antagonism 3771
soil, environmental factors 1303
spinach, inoculum 7389
*Trichoderma*, antagonism 8167
vegetables, Ningxia 1899
***Pythium splendens***
molecular genetics
heterothallism 2533
restriction fragment length polymorphism 2533
soil
estimation 8166
Hawaii 8170
mating types 8170
survival 8170
***Pythium sylvaticum***
lucerne
identification 7578
South Africa 7578
molecular genetics
heterothallism 2533
restriction fragment length polymorphism 2533
*Phaseolus vulgaris*
edaphic factors 3488
glyphosate 3488
isolates 3488
soil, Japan 8171

***Pythium sylvaticum*** *cont.*
wheat
edaphic factors 3488
glyphosate 3488
isolates 3488
***Pythium torulosum***
*Agrostis stolonifera* var. *palustris*
pathogenicity 4452
soil flora 4452
***Pythium tracheiphilum***
lettuces, Italy 6084
*Pinus*
Algeria 7117
antagonists 7117
pathogenicity 7117
*Pseudomonas fluorescens*, antagonism 7117
***Pythium ultimum***
apples
interactions 2938
replant disease 2938
spore germination 7316
*Bacillus subtilis*, antagonism 3253
beetroots
control 420
seed treatment 420
chickpeas
soil density 376
soil water 2808
China 1313
cotton
biological control 569, 5515
USA 5515
cress, biological control 3469
cucumbers
biological control 450, 4603
control 1032
host parasite relationships 4605
hydroponics 1032
mycorrhizas 450
resistance 6898
silicon 4605, 6898
*Fagus sylvatica*
Germany 4806
pathogenicity 4806
*Gliocladium virens*, antagonism 5000, 5004
laboratory tests, glyphosate 3693
melons, inoculum 7389
monoclonal antibodies 8149
mycorrhizal fungi, antagonism 1256
peas
biological control 12, 938
control 7614
ethanol 938
seeds 938
varietal reactions 8453
peat, biological control 746
*Pelargonium hortorum*
resistance 1733
silver thiosulfate 1733
*Phaseolus vulgaris*
edaphic factors 3488
glyphosate 3488
isolates 3488
soil water 6784
varietal resistance 6784
*Pinus*, biological control 601
*Pythium oligandrum*, antagonism 3771
radishes, biological control 227
soil
environmental factors 1303
Japan 8171
soyabeans
biological control 938
ethanol 938
seeds 938
spinach, inoculum 7389
*Streptomyces griseoviridis*, hyperparasitism 4175
sugarbeet, biological control 542, 3469, 3925
tomatoes, biological control 3771
*Trichoderma harzianum*, antagonism 4176, 5776
vegetables, Ningxia 1899
wheat
biological control 8280
edaphic factors 3488
glyphosate 3488
isolates 3488
***Pythium ultimum* var. *sporangiiferum***
*Capsicum*, biological control 8583
*Celosia argentea*, biological control 8583
***Pythium ultimum* var. *ultimum***
lucerne
identification 7578
South Africa 7578
***Pythium zingiberum***
*Zingiber mioga*
control 7149
Kyushu 7149
***Quamoclit vulgaris***, *Glomerella cingulata*, Assam 3400
**Quarantine**
apple stem grooving capillovirus, Japan 3838
Australia 321
bananas 1075
biological control agents 1767
cassava 988
*Clavibacter michiganensis* subsp. *michiganensis*, tomatoes 7693
cocoa 1124
*Colocasia* 991
*Erwinia amylovora* 7266
Ethiopia 830
Europe, books 1772
fodder legumes 924
germplasm 3320
*Glomerella cingulata* 7894
grain legumes 924
grapes 1065
*Heliconia*
Australia 5589
Queensland 5459
India 2406, 5585
Middle East 646
*Musa* 1075
Papua New Guinea 1252
plant pathogens, Canada 4114
plum pox potyvirus 7267
*Pseudomonas syringae* pv. *persicae* 7761
regulations 7272
rice 321
roses 2406
seedborne organisms 646
terminology 7273
*Vanilla* 1181
wheat 830
*Xanthomonas campestris* pv. *vesicatoria* 7694
*Xanthosoma* 991
yams 990
***Quercus***
*Apiognomonia errabunda*
genetics 3133
strains 3133
*Armillaria mellea*
Russia 7091
sewage sludge 1255
*Ceratocystis fagacearum*, control 1699
*Cryphonectria parasitica*, Czechoslovakia 1695
decline
fungi 4802
Italy 4802, 8772
Slovakia 6293, 7914
*Diplodia*
pathogenicity 7913
Spain 7913
symptoms 7913
*Meliola quercicola*
Hunan 4799
taxonomy 4799
mycorrhizas
ecology 2501
screening 4129
sewage sludge 1255
Spain 2501
*Tuber magnatum*
mycorrhizas
ecology 2491
Italy 2491
***Quercus acutissima***, *Botryosphaeria ribis*, Manipur 3968
***Quercus cerris***, *Tubakia dryina*, Italy 7912
***Quercus costaricensis***, *Laccaria trichodermophora*, mycorrhizas, Costa Rica 7289
***Quercus ilex***
air pollution
Italy 4804
pollen 4804
*Cryphonectria parasitica*, Italy 4795
*Phytophthora cinnamomi*
decline 3969
Portugal 3969
Spain 3969
***Quercus myrsinaefolia***
mycorrhizas, morphology 4130
*Pisolithus tinctorius*
mycorrhizas
nutrients 4131
ontogeny 4131
***Quercus palustris***, *Phytophthora cinnamomi*, resistance 2385
***Quercus petraea***
*Chalara ovoidea*, Germany 7911
decline
Czech Republic 4803
diagnosis 4803
drought 6294
Germany 4801
Hungary 6294
fungi
Austria 7094
endophytes 7094
*Ophiostoma piceae*, Germany 4801
***Quercus pubescens***, *Cryphonectria parasitica*, Italy 4795
***Quercus robur***
*Chalara ovoidea*, Germany 7911
*Ciboria batschiana*
acorns 2384
Sweden 2384
decline
Czech Republic 4803
diagnosis 4803
fungi 7093
Germany 4801, 7093
fungi
decay 1150
environmental factors 1150
insects 7092
UK 1150
*Ophiostoma piceae*, Germany 4801
*Russula ochroleuca*, mycorrhizas, morphology 6478
***Quercus rubra***
air pollution, growth 1696
mycorrhizas, allelopathy 697
*Pezicula cinnamomea*
biology 4800
morphology 4800
*Phytophthora cinnamomi*
France 2382-2383
host parasite relationships 2383
inoculation 2385
spread 2382
susceptibility 2385
*Tubakia dryina*, toxins 2386
***Quercus suber***
*Phytophthora cinnamomi*
decline 3969
Portugal 3969
Spain 3969
**Quinces** (*Cydonia oblonga*)
*Erwinia amylovora*
Turkey 457
varietal reactions 457
Yugoslavia 2934
*Monilinia linhartiana*
control 8606
Switzerland 8606
storage decay, Jammu and Kashmir 8620
viruses
elimination 1571
testing 1571
Yugoslavia 6153
**Quinconazole**
activity
*Botrytis cinerea* 2463
*Cladosporium cucumerinum* 2463
*Fusarium culmorum* 2463
*Fusarium oxysporum* f.sp. *lycopersici* 2463
*Glomerella cingulata* 2463
*Rhizoctonia solani* 2463
*Ustilago zeae* 2463
**Quinomethionate** (*see* Chinomethionat)

**Quinone fungicides,** activity, *Glomerella tucumanensis* 5696
**Quintozene**
activity
*Macrophomina phaseolina* 111
*Phytophthora capsici* 2483
*Rhizopus oryzae* 6116
control
*Alternaria alternata*, wheat 2646
*Cochliobolus sativus*, wheat 2646
*Corticium rolfsii*, groundnuts 1102, 3072
*Ganoderma boninense*, oil palms 2315
*Macrophomina phaseolina*, *Phaseolus vulgaris* 6786
*Mycosphaerella berkeleyi*, groundnuts 3072
*Pyricularia*, wheat 2646
*Rhizoctonia solani*
groundnuts 3072
*Phaseolus vulgaris* 6779
rough lemons 4670
*Stenotaphrum secundatum* 1727
seed treatment, chickpeas 6022
***Racodium therryanum***
Coniferae
Hokkaido 6300
susceptibility 6300
*Picea jezoensis*
Hokkaido 6319
seeds 6319
**Radish mosaic comovirus,** squashes, enzymes 1967
**Radishes** (*Raphanus sativus*)
*Alternaria raphani*
biological control 2869
environmental factors 2869
sulfur dioxide 5834
fungicide residues 1830
*Fusarium oxysporum* f.sp. *conglutinans*, biological control 227
*Fusarium oxysporum* f.sp. *raphani*
selection 4537
soil amendments 2177
*Peronospora parasitica*
environmental factors 6838
host parasite relationships 4538
inoculum 4538
Japan 2180
morphology 6838
pathogenicity 2180
seeds 4539
yield losses 4539
*Phytophthora cryptogea*
elicitors 3467
induced resistance 3467
*Phytophthora nicotianae* var. *parasitica*
elicitors 3467
induced resistance 3467
*Pseudocercosporella capsellae*, Japan 6837
*Pythium ultimum*, biological control 227
*Rhizoctonia solani*
biological control 227, 1968
sulfur dioxide 5834
seedborne fungi, vigour 2866
turnip mosaic potyvirus
biochemistry 1534
yield losses 1534
*Xanthomonas campestris* pv. *armoraciae*, induced resistance 3467
**Rain forests,** *Hypoxylon*, Papua New Guinea 1904
***Ramichloridium pini,*** *Pinus contorta*, UK 5552
***Ramularia achilleae-millefolii,*** taxonomy, new species 7361
***Ramularia arvensis* var. *cercosporelloides,*** taxonomy, new variety 7361
***Ramularia beticola***
sugarbeet
control 1122
Denmark 6265
epidemiology 6265
France 1122
models 6265
***Ramularia biscutellae***
*Biscutella laevigata*
Romania 7371
taxonomy 7371
***Ramularia coriandri***
*Coriandrum sativum*
host parasite relationships 7981
phenolic compounds 7981
***Ramularia epipactidis,*** taxonomy, new species 7361
***Ramularia gossypii,*** cotton, varietal reactions 3111
***Ramularia inae***
*Alkanna tuberculata*
Romania 771
taxonomy 771
***Ramularia maculicola,*** taxonomy, new species 7361
***Ramulispora sorghi***
sorghum
Tanzania 4404
varietal reactions 1434, 1441
***Ramulispora sorghicola***
sorghum
enzymes 1429
varietal reactions 1429
***Ranunculus sceleratus,*** diseases, Haryana 8859
**Rape** (*Brassica napus* var. *oleifera*)
*Alternaria alternata*
Italy 2294
toxins 2294
*Alternaria brassicae*
control 8671
selection 6231
toxins 6231
UK 8671
beet western yellows luteovirus
Czechoslovakia 4727
reservoir hosts 4727
*Botrytis cinerea*
control 7815
insects 7815
diseases
breeding 2293
control 2297, 6230, 7427
Denmark 7816
glucosinolates 4697
nomenclature 1361
rotations 7816
symptoms 516
UK 2297, 7427
USSR 1088
varietal reactions 1088, 4697
weeds 8669
*Erysiphe*
France 4700
varietal reactions 4700
*Leptosphaeria maculans*
biological control 5117
Canada 1625
control 518, 2296, 4698-4699, 7815, 8671
detection 5463
enzymes 1538
epidemiology 2296
estimation 6232
Germany 2296
host parasite relationships 1091, 1538
inoculation 4701
insects 7815
molecular genetics 7014
pathogenesis-related proteins 7014
pathotypes 1625
seeds 518
sporulation 7015
Switzerland 4698
temperature 1091
UK 8671
yield losses 1090, 2296
*Mycosphaerella capsellae*
epidemiology 8672
UK 8672
*Phoma*
control 4703
France 4703
plant oils, antifungal agents 4611
*Plasmodiophora brassicae*
control 6234
rotations 4556
varietal reactions 3889, 6234
West Bengal 6234
*Pseudocercosporella capsellae*, inoculation 4701
**Rape** *cont.*
*Pyrenopeziza brassicae*
control 1090, 8671
epidemiology 1090
Germany 1090
mutants 4702
pathogenicity 4702
UK 8671
*Pythium*, cultural methods 1360
*Rhizoctonia solani*
biological control 6233
cultural methods 1360
Indiana 3044
screening 1093
*Sclerotinia sclerotiorum*
biological control 6236
breeding 2295
Canada 519
clonal variation 519
control 3890, 6235
cultural methods 8250
forecasting 517, 8670
hyperparasities 7016
Saskatchewan 8670
Sweden 517, 1352
UK 7016, 8250, 8667
varietal reactions 8667
yield losses 6236
Zhejiang 6235
turnip mosaic potyvirus, varietal reactions 8668
*Unguicularia*, UK 1092
*Verticillium dahliae*
interactions 1089
Nematoda 1089
***Raphanus sativus*** (*see* Radishes)
***Raphia***
*Chalara paradoxa*
control 4784
Nigeria 4784
**Raspberries** (*Rubus idaeus* and *R. strigosus*)
*Agrobacterium*, genetic transformation 6946
arabis mosaic nepovirus, immunodiagnosis 1589
*Botrytis cinerea*, detection 6165
diseases
breeding 4632
control 6167
France 6167
UK 4632
*Phytophthora*
control 473
Norway 473
*Phytophthora citricola*
Chile 8626
diagnosis 2978
Germany 2978
pathogenicity 7762
*Phytophthora citrophthora*, Chile 8626
*Phytophthora erythroseptica*, breeding 6166
*Phytophthora fragariae* var. *rubi*
composts 7762
diagnosis 2978
Europe 7763
Germany 2978
North America 7763
pathogenicity 7762
rotations 7762
taxonomy 4218, 7763
tobacco streak ilarvirus, immunodiagnosis 6140
tomato black ring nepovirus, immunodiagnosis 1589
viruses, Germany 4817
**Raspberry bushy dwarf idaeovirus,** molecular genetics, nucleotide sequences 5086
**Raspberry ringspot nepovirus**
molecular genetics, nucleotide sequences 5070
serology, monoclonal antibodies 7400
**Records**
geography
*Acaulospora longula*, China 5735
*Acaulospora mellea*, China 5735
*Acaulospora scrobiculata*, China 5735
*Armillaria obscura*, Russia, Far East 3154

**Records** *cont.*
geography *cont.*
barley mild mosaic bymovirus, China 2028
bean yellow mosaic potyvirus, Spain 6007
*Bipolaris sacchari*, Pakistan 3084
*Botryodiplodia theobromae*, Romania 3171
*Bremia ovata*, India 3392
*Bulbouncinula bulbosa*, Taiwan 7373
*Chrysomyxa weirii*, Pennsylvania 6301
citrus vein enation-woody gall virus, China 1078
cowpea chlorotic mottle bromovirus, Nigeria 2587
cucumber green mottle mosaic tobamovirus, Saudi Arabia 1029
*Cylindrocladiella*, South Africa 4792
*Cylindrocladiella camelliae*, South Africa 4792
*Cylindrocladium clavatum*, South Africa 4792
*Cylindrocladium colhounii*, South Africa 4792
*Darkera parca*, Sweden 7119
dasheen mosaic potyvirus, Cuba 2820
*Dicyma pulvinata*, Virginia 1638
*Diplodiella oospora*, Ukraine 3395
*Diplodina eurhododendri*, Ukraine 2243
*Genea klotzschii*, Netherlands 1861
*Glomus hoi*, China 5735
*Lophodermium himalayense*, China 6317
*Lophodermium kumaunicum*, China 6317
*Lophodermium pinastri*, Iran 1714
*Lophophacidium hyperboreum*, China 6320
*Melampsora larici-populina*
Oregon 7098
Washington 7098
*Microsphaera vanbruntiana*, France 1158
*Mycosphaerella medicaginis*, Ukraine 3395
*Mycosphaerella superflua*, Ukraine 3395
*Pleospora betae*, Argentina 4540
*Pleurotus cystidiosus*, Greece 490
*Pseudocercospora rhoina*, India 751
*Pseudomonas syringae* pv. *avellanae*, Italy 3039
*Pseudomonas syringae* pv. *tomato*, India 6105
*Puccinia acroptili*, Washington 637
*Puccinia cribrata*, Germany 6555
*Puccinia jaceae* var. *diffusa*, USA 637
*Puccinia melanocephala*, Pakistan 3084
*Puccinia piloselloidarum*, Turkey 7362
*Puccinia porri*, Turkey 7362
*Puccinia tragopogenis*, Turkey 7362
*Pyrenochaeta oryzae*, USA 1459
*Pythium prolatum*, South Africa 1723
*Seimatosporium kriegerianum*, Bulgaria 6554
*Sirococcus clavigignenti-juglandacearum*, Canada 586
*Stigmina carpophila*, India 3842
*Thecaphora viciae-amoenae*, China 5785
*Tilletia intermedia*, Iran 6652
*Tranzschelia discolor*, Germany 6555
*Unguicularia raripila*, UK 1092
*Uromyces ambiguus*, Turkey 7362
zucchini yellow mosaic potyvirus, Singapore 443
hosts
*Alternaria tenuissima*, *Nephrolepis biserrata* 1186
*Arthrinium arundinis*, barley 872
barley mild mosaic bymovirus, rye 874
*Bipolaris sacchari*, *Panicum maximum* 3209
**Records** *cont.*
hosts *cont.*
*Botryosphaeria ribis*, *Quercus acutissima* 3968
*Bulbouncinula bulbosa*, *Koelreuteria elegans* 7373
*Cercospora populina*, *Populus deltoides* 3984
*Chaetothyrium*, mulberries 479
*Corticium rolfsii*
*Angiopteris evecta* 8820
*Marattia salicina* 8820
*Curvularia affinis*, mulberries 479
*Dermea pseudotsugae*, *Pseudotsuga menziesii* 6301
*Diaporthe lokoyae*, *Picea pungens* 6301
*Discosia pini*, *Pseudotsuga menziesii* 6301
*Glomerella cingulata*
*Asystasia gangetica* 4003
*Asystasia nemorum* 4003
*Leptoxyphium fumago*, *Rhododendron arboreum* 7926
*Leucostoma kunzei*, *Abies fraseri* 6301
*Leveillula taurica*, *Anethum sowa* 4021
*Macrophomina phaseolina*, *Macuna pruriens* 2775
*Melampsorella caryophyllacearum*, *Abies fraseri* 6301
mycoplasma-like organisms, *Ammobium alatum* 4861
*Periconia narsapurensis*, potatoes 6045
*Phoma macrostroma*, *Populus deltoides* 3984
*Phytophthora citrophthora*, *Anthurium andreanum* 4005
*Pleurotus cystidiosus*, figs 490
*Pseudomonas andropogonis*, *Ruscus* 7141
*Pseudomonas syringae*, *Foeniculum vulgare* 7156
*Puccinia melanocephala*, *Imperata arundinacea* 1643
*Pythium aphanidermatum*, *Cymbopogon winterianus* 1183
*Robillarda sessilis*, *Amomum subulatum* 4012
*Sclerophthora macrospora*
*Avena sterilis* subsp. *ludovici* 4301
*Lophochloa pumila* 4301
*Polypogon monspeliensis* 4301
*Sclerotinia minor*, lupins 5573
tomato black ring nepovirus
*Senecio integrifolius* 1755
*Senecio nemorensis* subsp. *fuchsii* 1755
tomato spotted wilt tospovirus, *Phalaenopsis* 1739
*Tubakia dryina*, *Quercus cerris* 7912
turnip yellow mosaic tymovirus, *Berteroa incana* 1187
*Unguicularia raripila*, rape 1092
*Uromyces alyxiae*, *Alyxia ruscifolia* 5608
wheat streak mosaic rymovirus
*Eriochloa contracta* 5134
*Setaria faberi* 5134
*Xanthomonas campestris* pv. *mangiferaeindicae*, *Schinus terebinthifolius* 591
*Xanthomonas campestris* pv. *phaseoli*, peas 2805
**Red beet** (*see* Beetroots)
**Red clover** (*see Trifolium pratense*)
**Red clover mottle comovirus**
Leguminosae, immunodiagnosis 4279
molecular genetics
nucleotide sequences 5062, 5071
RNA 5062
peas
proteins 5271
source sink relations 7611
*Trifolium*, immunodiagnosis 4279
**Red clover vein mosaic carlavirus**
lucerne
Canada 4454
**Red clover vein mosaic carlavirus** *cont.*
lucerne *cont.*
USA 4454
peas
characteristics 209
Lithuania 209
*Phaseolus vulgaris*
characteristics 209
Lithuania 209
*Trifolium pratense*
characteristics 209
Lithuania 209
**Red currants** (*Ribes rubrum*)
mycoplasma-like organisms
transmission 475
Ukraine 475
**Red gram** (*see* Pigeon peas)
**Red pine** (*see Pinus resinosa*)
***Reddellomyces***, taxonomy 706
***Rehmiodothis osbeckiae***, IMI descriptions 1903
**Rembrandt tulip breaking virus**
*Lilium*, identification 7966
tulips, identification 7966
**Reports**
Afghanistan, Agricultural Survey of Afghanistan 4037
Belgium, Ministry of Agriculture Agricultural Research Centre 4038
Canada
Forestry Canada -Maritimes Region 3962
Station de Recherches de Saint-Jean-sur-Richelieu 7171
India, Coffee Board Research Department 7862
Integrated Pest Management Group 4906
International Center for Agricultural Research in the Dry Areas, Genetic Resources Unit 3213
Italy, Istituto Sperimentale per la Patologia Vegetale 5637
Malawi, Bvumbwe Agricultural Research Station 4036
microorganisms, biodiversity 8862
Netherlands
Plant Disease Information Service, Wageningen 8861
Plantenziektenkundige Dienst Wageningen 4899
Papua New Guinea, Oil Palm Research Association 2311
Sri Lanka, Rubber Research Institute 578
Syria, International Centre for Agricultural Research in the Dry Areas 638
UK, British Agrochemicals Association 18, 4070
USA, USDA Forest Service 8756
Zimbabwe, Tobacco Research Board 8715
**Republic of Georgia**
*Catharanthus roseus*, yellows 5591
chestnuts, *Pestalotia* 5532
citrus
*Elsinoë fawcettii* 6994
mycoplasma-like organisms 500
figs, *Botrytis cinerea* 7009
grapes, chlorosis 1074
lemons, diseases 503
persimmons
*Botrytis cinerea* 7009
*Botrytis diospyri* 4686
*Macrophomina diospyricola* 4686
*Pestalotia diospyri* 5532
*Phomopsis diospyri* 4686
pomegranates, *Botrytis cinerea* 7009
tea, diseases 545
tobacco, diseases 2351
wheat, *Puccinia graminis* 1391
**Resorcinol,** activity, cucumber mosaic cucumovirus, *Capsicum* 6119
**Réunion,** *Schinus terebinthifolius*, *Xanthomonas campestris* pv. *mangiferaeindicae* 591
**Reviews**
*Alternaria alternata*, toxins 4204
apples
*Erwinia amylovora* 6913
*Podosphaera leucotricha* 6920
control 2943
*Venturia inaequalis* 7733

**Reviews** *cont.*
apples *cont.*
*Venturia inaequalis cont.*
control 2943
apricots
diseases 2228
mycoplasma-like organisms 2232
viruses 2232
Ascomycotina
growth 5016
sexual reproduction 3364
asparagus
decline, New Zealand 430
replant disease, New Zealand 430
aubergines, *Phomopsis vexans* 6115
avocados, *Phytophthora cinnamomi* 7008
bacteria
antagonists, plant pathogens 9
exopolysaccharides 3226
pathogenicity, protein secretion 6391
polysaccharides 2443
bananas
*Fusarium oxysporum* f.sp. *cubense* 6977
*Pseudomonas solanacearum* 6979
barley, *Erysiphe graminis*, induced resistance 6681
biological control 2442
biodiversity 1
diseases 5037, 6595, 6605
weeds 6354, 6595, 7168
biological control agents
development 5638
formulations 6387
*Botrytis cinerea*, host parasite relationships 5749-5750
capilloviruses 8205
cassava
African cassava mosaic bigeminivirus 1527
Indian cassava mosaic bigeminivirus 1527
*Xanthomonas campestris* pv. *manihotis* 1529
cereals
barley yellow dwarf luteovirus 821
mycotoxins 5128
*Pseudocercosporella herpotrichoides* 825
storage fungi 5128
viruses 2620
*Chaetomium*, biological control 1355
chestnuts, *Cryphonectria parasitica*, hypovirulence 3887
chickpeas
*Ascochyta rabiei* 959
*Botrytis cinerea* 960
*Fusarium oxysporum* f.sp. *ciceris* 958
chrysanthemums, *Puccinia horiana*, biological control 8812
Chytridiomycetes 4053
citrus
blight 6992
citrus tristeza closterovirus 6830
*Oidium tingitaninum* 1080
*Phytophthora* 6993
*Xanthomonas campestris* pv. *citri* 6997
closteroviruses 8205
*Cochliobolus miyabeanus*, toxins 7549
cocoa
diseases 2339, 7868
Caribbean 548
Papua New Guinea 548
Sabah 548
Solomon Islands 552
*Moniliophthora roreri*, South America 559
*Oncobasidium theobromae*, biology 553
*Phytophthora* 2341
*Phytophthora palmivora*, biological control 556
coconuts
coconut cadang-cadang viroid 1633
root (wilt) 526, 1632
coffee
*Glomerella cingulata* 1653
*Hemileia vastatrix* 1652
*Colletotrichum*
biological control 6618

**Reviews** *cont.*
*Colletotrichum cont.*
genetics 6532
host parasite relationships 6613
life cycles 6535
molecular genetics 6533
pathogenicity 6535
resistance 6613
sexual reproduction 6532
taxonomy 6564
*Colletotrichum coccodes* 6616
*Colocasia esculenta*, *Phytophthora colocasiae* 6836
Coniferae, root rots, Sweden 1161
*Coniothyrium minitans*
biological control 1294
biology 1294
*Corticium rolfsii*, biology 1288
cotton
damping off 2355
diseases 2355, 2358-2361
*Fusarium oxysporum* f.sp. *vasinfectum* 1674, 1676, 2357
mineral deficiencies 2365
mycoplasma-like organisms 2353
*Verticillium dahliae* 1674, 2356
viruses 2353
*Xanthomonas campestris* pv. *malvacearum* 1674, 2363
crops
*Colletotrichum* 6615
diseases
genetic engineering 143
Nepal 217
mycorrhizas 2511, 6467
viruses
genetic engineering 1964
induced resistance 2571
resistance 1964, 8198
*Xylella fastidiosa* 1595
Cruciferae
*Leptosphaeria maculans* 6080
*Xanthomonas campestris* pv. *campestris* 6082
*Cupressus*, diseases 4849
*Cylindrocladiella*, taxonomy 5048
Deuteromycotina, taxonomy 5790, 7369
Endogonales, taxonomy 4151
*Eucalyptus*
fungi, South Africa 8760
*Phytophthora cinnamomi*, Victoria 5534
*Eucalyptus marginata*, *Phytophthora cinnamomi*, Western Australia 7908
*Festuca arundinacea*
*Acremonium coenophialum*
nutrients 8408
water stress 8408
flax, diseases, genetics 7077
forest decline, Switzerland 1692
forest trees
*Cylindrocladiella*, South Africa 1147
*Cylindrocladium*, South Africa 1147
diseases 4789
Nepal 217
mycorrhizas 4123, 5716
*Phytophthora* 1688
forests, climatic change 7084
fruit
diseases 7175
biological control 2609, 2614
postharvest decay 6912
biological control 4282
control 5121
fruit trees, mycorrhizas 1270
fungi
ecology 2531
genetic engineering, biological control 144
hyperparasitism 99
mutualism 1837
polymerase chain reaction 7392
sclerotia, development 103
taxonomy, molecular biology 775
toxins 6507
*Fusarium*, taxonomy 1908
geminiviruses, molecular genetics 1952
*Glomerella*
genetics 6532
sexual reproduction 6532
taxonomy 6564

**Reviews** *cont.*
*Glomerella cingulata*, Tropics 6617
*Glomus*, taxonomy 4151
grain legumes, viruses 2100
Gramineae
*Acremonium* 8413
toxins 8406
grapes
*Botrytis cinerea* 6968
*Plasmopara viticola* 6965
*Uncinula necator* 6967
groundnuts
*Mycosphaerella arachidis* 6250
*Mycosphaerella berkeleyi* 6250
*Puccinia arachidis* 6249
*Hevea brasiliensis*, *Microcyclus ulei* 5522
host parasite relationships 2619, 8247
biochemistry 653, 8245
molecular genetics 656, 8245
polysaccharides 153
suppressors 155
ilarviruses, transmission 2585
integrated pest management 5641
development 5632
ecology 5632
kiwifruits, storage decay 3001
Leguminosae
*Colletotrichum* 6614
mycorrhizas 1847
lettuce mosaic potyvirus 1004
lettuces, *Bremia lactucae* 6083
*Magnaporthe grisea*
biology 2079
population genetics 2079
maize
*Colletotrichum graminicola*, host parasite relationships 6633
diseases 7495
*Gibberella fujikuroi* 5189
Honduras 301
maize chlorotic dwarf ribotungrovirus 876
maize dwarf mosaic potyvirus 876
maize streak monogeminivirus 876
*Peronosclerospora* 887
*Sclerophthora* 887
*Sclerospora* 887
*Setosphaeria turcica*, epidemiology 2058
*Stenocarpella maydis*, Honduras 301
viruses 8345
mangoes, malformation 7001
molecular genetics, *Glomerella cingulata* 6758
mycoplasma-like organisms
control 3457
diagnosis 3457
molecular genetics 1954
vectors 2564
mycorrhizal fungi
classification 3330
interactions 1779
nutrient transport 6482
soil conservation 4119
ultrastructure 5700
mycorrhizas 2489, 4118
classification 5715
crop production 4154
ecology 1838, 4121
environmental factors 4155
morphology 5715
plant diseases 4997
research 4212
soil biology 4153
Spitsbergen 693
mycotoxins, analytical methods 149-151
oil palms, diseases 3058
onions, *Sclerotinia squamosa* 6074
ornamental plants, viruses, elimination 7124
pawpaws, *Phytophthora palmivora* 7007
pears
decline 6930
*Erwinia amylovora* 6913
peas
*Ascochyta pisi* 6794
diseases 4480
*Mycosphaerella pinodes* 6794
pea seed-borne mosaic potyvirus 2130

**Reviews** *cont.*
peas *cont.*
*Phoma medicaginis* var. *pinodella* 6794
*Penicillium*, Southern Africa 126
*Pennisetum americanum*
*Claviceps fusiformis* 899
*Puccinia* 1448
*Sclerospora graminicola* 898
pesticide residues, analysis 7205
pesticides
analysis 676
development 5668
environmental impact 2478
nontarget effects 3314
man 8086
structure activity relationships 4944
uptake 6428
volatilization 7210
*Phaseolus vulgaris*
*Colletotrichum lindemuthianum* 2124
*Xanthomonas campestris* pv. *phaseoli* 2127
phylloplane fungi, interactions 1779
pigeon peas
*Fusarium udum* 965
*Phytophthora drechsleri* f.sp. *cajani* 964
pigeon pea sterility mosaic virus 961
pineapples, pineapple wilt-associated virus 3026
*Pinus*, fungi, South Africa 8760
plant diseases
antagonism, terminology 4054
biological control 1970, 6383
control, chitinase 8090
enzymes, analysis 152
estimation, errors 4234
genetics 6599
induced resistance 233, 6597
molecular genetics 2597
mycotoxins, analysis 152
phytoalexins 6597
resistance 652
evolution 4052
molecular genetics 5825
suppressive soils 1895
plant pathogens
detection 6573
ecosystems 1777-1778
fungicide tolerance 5667
host parasite relationships 1958
infection 6619
interactions 1779
leaves 8254
soil, population dynamics 4214
vectors 1958
plant pathology, molecular genetics 654
plant protection
clinics 4050
computer techniques 1926
technology 5631
plants
*Armillaria* 1362
bacteria
genetic engineering 5642
ice nucleation 4
diseases, phenolic compounds 6596
pathogens, lignification 6620
viruses
defence mechanisms 5805
resistance 2572, 7397
potatoes
diseases 4510
host parasite relationships, ultrastructure 4517
mosaic 6035
*Phytophthora infestans* 6052
potato leaf roll luteovirus 6039
potyviruses
characteristics 158
coat proteins 204
monoclonal antibodies 201
resistance 174
serology 197, 202
taxonomy 158, 161, 164, 204
prunus necrotic ringspot ilarvirus 6936
*Pseudomonas*
biological control, plant diseases 3245
plasmids 6405

**Reviews** *cont.*
*Pyrenophora semeniperda*
distribution 1314
host range 1314
*Pyricularia oryzae*
biology 2079
population genetics 2079
*Pythium*
physiology 6518
South Africa 1353
rhabdoviruses, vectors 2586
rice
*Alternaria padwickii* 6736
*Cochliobolus miyabeanus* 914
diseases 5211
*Magnaporthe grisea* 912
mycoplasma-like organisms 2730
*Rhizoctonia solani* 918
rice tungro bacilliform badnavirus 902
rice tungro spherical ribotungrovirus 902
viruses 2730
*Xanthomonas oryzae* pv. *oryzae* 922, 2752
rice tungro bacilliform badnavirus, molecular genetics 1949
rice tungro spherical ribotungrovirus, molecular genetics 1949
roots, microorganisms, sustainability 6386
seed treatment 1975
soil, plant pathogens 2545
soil fungi, research 4212
soil fungistasis 6546
soil solarization 4208, 4215, 4286
soil treatment, nontarget effects 6455
sorghum
*Colletotrichum graminicola* 895
host parasite relationships 6633
soyabeans, *Pseudomonas syringae* pv. *glycinea* 6001
*Spiroplasma* 3459
stone fruits, *Pseudomonas syringae* 6938
storage decay, biological control 5840
strawberries, *Botrytis cinerea*, integrated control 7767
sugarbeet
beet curly top intergeminivirus 1651
*Cercospora beticola* 1650
*Colletotrichum dematium* f.sp. *spinaciae*, Japan 1649
sugarcane
*Ceratocystis paradoxa* 2330
*Clavibacter xyli* subsp. *xyli* 1648
*Glomerella tucumanensis* 1644
*Ustilago scitaminea* 1645
*Xanthomonas albilineans* 1647
sunflowers
diseases 4707
*Plasmopara halstedii* 6239
*Puccinia helianthi* 6240
taxonomy, *Hymenoscyphus* 7364
tobacco, *Peronospora tabacina* 1670
tomato spotted wilt tospovirus
epidemiology 2584
vectors 2584
trees
*Armillaria mellea* 1687
*Heterobasidion annosum* 1687
*Ulmus*, *Ceratocystis ulmi* 7102
Uredinales, host parasite relationships 5007
vegetables
diseases, biological control 2609, 2614
postharvest decay, biological control 4282
viruses, Taiwan 2856
viroids
biology 1951
diagnosis 5053
evolution 1951
viruses
classification 1321
diagnosis 5053
gene expression 1322
genetic transformation 8190
molecular genetics 784
resistance 2563
genetic transformation 8195

**Reviews** *cont.*
viruses *cont.*
vectors 2564
weeds, biological control 2422, 7169
wheat
diseases 2649
Ethiopia 829
*Erysiphe graminis*, Yugoslavia 3542
*Puccinia graminis* 841
*Puccinia recondita* 841
*Puccinia striiformis* 841
*Tilletia indica* 847
woody plants, phytoalexins 1145
***Reynoutria japonica***, plant extracts, antiviral agents 6005
***Reynoutria sachalinensis***, plant extracts, antifungal agents 6610, 7432
***Rhabdocline parkeri***
*Pseudotsuga menziesii*
Oregon 7122
population genetics 7122
***Rhaphiolepsis umbellata***
*Entomosporium mespili*, phytoalexins 7129
*Pestalotiopsis*, phytoalexins 7129
***Rheum rhaponticum*** (*see* Rhubarb)
***Rhizobium***
activity, *Macrophomina phaseolina*, *Vigna radiata* 970
antagonism, soil fungi 1302
interactions, *Gigaspora calospora*, peas 2519
potatoes, Chile 2831
***Rhizobium meliloti***, molecular genetics, genetic engineering 6382
***Rhizoctonia***
*Amaranthus*, Nepal 5976
anastomosis groups, India 3399
control
*Pythium*, cucumbers 2216
*Pythium ultimum* var. *sporangiiferum*
*Capsicum* 8583
*Celosia argentea* 8583
*Rhizoctonia solani*, cucumbers 2216
crops, anastomosis groups 3382
*Dactylorhiza incarnata*
host parasite relationships 1278
mycorrhizas 1278
nitrogen 1278
*Euphorbia esula*, USA 8860
maize
control 5916
Mexico 5916
*Pinus taeda*, Virginia 8796
potatoes, Russia 4518
soil
control 5916
Mexico 5916
survival 1897
vegetables, insects 6600
wheat
population dynamics 8321
seed treatment 8321
***Rhizoctonia bataticola*** (*see Macrophomina phaseolina)*
***Rhizoctonia cerealis***
barley
anastomosis groups 8334
Jiangsu 8334
crops
Europe 2611
Jiangsu 8248
pathogenicity 8248
diagnosis 4229
laboratory tests, triazoles 8091
production, antibiotics 1836
rice, infection 8370
***Rhizoctonia fumigata***
rice
infection 8370
spread 7533
symptoms 7533
***Rhizoctonia oryzae***
barley
control 290
Oregon 290
Washington 290
weeds 290
pawpaws
control 3037
storage 3037

***Rhizoctonia oryzae*** *cont.*
rice
infection 8370
spread 7533
symptoms 7533
***Rhizoctonia solani***
*Agrostis stolonifera* var. *palustris*
biological control 1728
control 1728
*Albizia lebbek*
Haryana 8780
Uttar Pradesh 8780
*Alstroemeria*
Alberta 5584
varietal reactions 5584
*Amomum subulatum*
Sikkim 4883
symptoms 4883
anastomosis groups 1888
differentiation 2543
genetics 2544
isoenzymes 2544
asparagus, Kyushu 1544
*Bacillus subtilis*, antagonism 1887, 3253
bacteria, antagonism 4441
bamboos, Philippines 4890
barley
anastomosis groups 8334
control 290, 5901
crop mixtures 6631
Iran 1408
Jiangsu 8334
Oregon 290
Victoria 5901
Washington 290
weeds 290
beetroots
control 420
seed treatment 420
biochemistry, fatty acids 4197
*Brassica*
control 6081
screening 1093
*Brevibacterium*, antagonism 815
cardamoms, Nematoda 8825
carnations, control 4866
*Chaetomium globosum*, antagonism 4441
chickpeas
Andhra Pradesh 6798
biological control 232
control 377
Ethiopia 377
India 232
integrated control 4497
physiology 8461
varietal reactions 8461
*Coleus forskohlii*, India 6349
cotton
biological control 569, 1968, 3114, 5515
control 1133-1134, 3112, 5517
Egypt 3112
Georgia 3112
herbicides 3112
planting date 3112
seeds 1133-1134, 5517
USA 1133, 5515
cowpeas
biological control 7624
Nematoda 4503
root exudates 8469
varietal reactions 8469
crops
anastomosis groups 1300
China 1300
Europe 2611
Jiangsu 8248
pathogenicity 8248
cucumbers
biological control 1565, 2216, 3796
pathogenicity 7724
sulfur dioxide 5834
varietal reactions 7709
culture media 1888
*Delphinium*
control 5578
Japan 5578
*Eucalyptus grandis*
environmental factors 3135
Kerala 3135
nurseries 3135

***Rhizoctonia solani*** *cont.*
*Euphorbia esula*, USA 8860
*Euphorbia pulcherrima*
control 4856
roots 4856
faba beans
biological control 6004
Chile 2115
isolates 6003
rhizosphere 6004
selection 6003
virulence 6003
fenugreek
biological control 6350
control 6350
*Festuca arundinacea*
endophytes 4448
varietal reactions 928
flax, genetics 7077
*Gliocladium roseum*, antagonism 100
*Gliocladium virens*, antagonism 5000, 5004
groundnuts
biological control 232
control 3072, 8695
Egypt 7032
India 232
Oklahoma 1101
seed treatment 7032
USA 8695
guavas
physiology 6217
varietal reactions 6217
heterokaryosis 3369
homokaryons 5028
horticultural crops, Denmark 5839
*Hyoscyamus muticus*, elicitors 7136
immunodiagnosis 6576
*Iris*, soil biology 620
laboratory tests
carboxamides 6447
heat treatment 5774
kojic acid 3291
pencycuron 6448
plant extracts 1831, 2483, 6464, 6602
prochloraz 2463
quinconazole 2463
*Laetisaria arvalis*, antagonism 7343
lentils
biological control 232
India 232
Pakistan 3698
lettuces
anastomosis groups 2184
biological control 1968
isolates 2184
Ohio 2184
*Lolium perenne*, control 931
lucerne
anastomosis groups 2768
California 7576
Kentucky 2768
Mexico 6755
seeds 6755
varietal reactions 6755
yield losses 7576
maize
control 2067
isolates 4197
Jiangsu 2067
mangoes
dieback 3022
Himachal Pradesh 3022
mating types 3369
melons, pathogenicity 7724
*Mentha arvensis*, Karnataka 8831
*Michelia champaca*
control 6298
Uttar Pradesh 6298
molecular genetics, DNA 8157
morphology, sclerotia 8159
*Nicotiana sylvestris*
chitinase 4772
genetic transformation 4772
host parasite relationships 4772
okras
Mexico 6138
Nematoda 6138
ornamental plants, suppressive soils 6328
*Panax pseudoginseng*
control 5593

***Rhizoctonia solani*** *cont.*
*Panax pseudoginseng cont.*
light 8823
soil fungistasis 7976
peas
integrated control 2804
Netherlands 6792
Ukraine 952
varietal reactions 8453
*Pelargonium graveolens*
planting date 4001
varietal reactions 4001
*Phaseolus coccineus*, seeds 4478
*Phaseolus lunatus*
testing 5240
varietal reactions 5240
*Phaseolus vulgaris*
anastomosis groups 5989
control 6779, 6781, 6786
drought 6782
enzymes 6526
Honduras 3687
host parasite relationships 6526
Mexico 6775, 6782, 6786
Ohio 5989
plant residues 6781
rotations 8443
seed treatment 2792, 6779
seeds 3687, 6786
soil water 6784
testing 5240
varietal reactions 5240, 8443
varietal resistance 6784
virulence 5989
yield losses 6775
Zaire 5989
*Pinus*, biological control 601
*Pinus caribaea*, Karnataka 6303
*Pinus kesiya*, India 4829
*Piper betle*, Madhya Pradesh 7978
*Piper nigrum*
control 7150
environmental factors 7150
*Portulaca*, Japan 5579
potatoes
biological control 401-402
control 3723, 3725, 5294, 6823, 8486
drying 6814
economics of control 402
fertilizers 1503
Honshu 5293
Mexico 6823
quality 3724
rotations 3713
storage 1503, 6814
tissue culture 6031
UK 6031, 8486
varietal reactions 400
yield losses 400, 3724
*Pseudomonas*, antagonism 3246
*Pythium oligandrum*, antagonism 3771
radishes
biological control 227, 1968
sulfur dioxide 5834
rape
biological control 6233
cultural methods 1360
Indiana 3044
screening 1093
rice
Anhui 2083
antagonists 4441
biological control 5953, 7554
Colombia 6739
control 917, 1457-1458, 2083, 5945, 6451, 6738, 7537, 7557
fertilizers 2746, 5965, 6739
forecasting 2083, 4436, 6737
genetics 5967
Guangdong 7552
Indonesia 5214
infection 8370
insects 7552
Iran 1461
Korea Republic 4416
Kyushu 1458
Louisiana 4436
Mississippi 5225
Philippines 3651
physiology 8385
plant density 6739

***Rhizoctonia solani*** *cont.*
rice *cont.*
plant extracts 904, 2733, 6718, 7525
reviews 918
rotations 4416, 5225
sclerotia 5225
seeds 2081
somaclonal variation 5967
spacing 5965
spread 7533
suppressive soils 3651
symptoms 7533
varietal reactions 1461, 2081, 6738
West Bengal 917, 2081, 5965
yield losses 1458, 2746, 4436, 6737, 7552
rough lemons
control 4670
Himachal Pradesh 4670
sclerotia 114
physiology 6530
soil
anastomosis groups 1300
biological control 1968
China 1300
control 6781
edaphic factors 5773
inoculation 6575
plant residues 6781
straw 1893
survival 3921, 5773
*Solanum carolinense*, Georgia 4027
soyabeans
anastomosis groups 5989
Ohio 5989
Russia 2108
testing 5240
varietal reactions 5240
virulence 5989
Zaire 5989
*Spiranthes sinensis* var. *amoena*, mycorrhizas 6501
squashes, cultural methods 1360
*Stenotaphrum secundatum*
control 1727
isolates 4197
*Streptomyces griseoviridis*, hyperparasitism 4175
sugarbeet
biological control 1968
enzymes 2336
forecasting 543
host parasite relationships 3919
isolates 4197
salinity 2336
survival 3921
Sweden 543
taxonomy, anastomosis groups 6563
tobacco
control 8733
environmental factors 8715
enzymes 6274
Florida 8733
genetic engineering 6274
genetic transformation 1131
resistance 1131
tomatoes
biological control 438, 3771, 8558
mycorrhizas 438
Nematoda 1550
*Trichoderma*
antagonism 8167
hyperparasitism 1299, 8167
*Trichoderma harzianum*
antagonism 4441, 7343
hyperparasitism 1299
*Trichoderma viride*, antagonism 4441, 7343
*Trifolium repens*
assessment 7582
epidemiology 4457
North Carolina 2096, 7582
tulips, soil biology 620
*Vigna angularis*, biological control 6023
*Vigna radiata*
control 2816
plant extracts 3319
*Vigna umbellata*, Sikkim 8470
wheat
control 2640, 3512, 4353
crop mixtures 6631

***Rhizoctonia solani*** *cont.*
wheat *cont.*
Jiangsu 4353
mulching 6638
ploughing 7480
rotations 7450
soil suppressiveness 4351
South Africa 7480
Washington 6638
*Xanthosoma sagittifolium*
breeding 4536
Cameroon 4536
***Rhizoctonia tuliparum***, production, antibiotics 1836
***Rhizoctonia zeae***, *Festuca arundinacea*, interactions 344
***Rhizomonas suberifaciens***
lettuces
Florida 4565
rotations 4565
***Rhizophora apiculata***, decay fungi, Brunei Darussalam 3974
***Rhizopogon luteolus***
culture media, growth 4138
*Pinus patula*, mycorrhizas 7290
*Pinus radiata*, mycorrhizas 6473
***Rhizopogon roseolus***
culture media, growth 4138
*Pinus pinea*, mycorrhizas 91
*Pseudotsuga menziesii*, mycorrhizas 7294
***Rhizopogon rubescens***
spore germination 4134
stains 4134
***Rhizopogon subareolatus***, *Pseudotsuga menziesii*, mycorrhizas 7294
***Rhizopogon vinicolor***, *Pseudotsuga menziesii*, mycorrhizas 699
***Rhizopus***
groundnuts
resistance 4717
seeds 4717
linseed, seeds 6237
soil, Bangladesh 119
sorghum, seeds 8358
***Rhizopus arrhizus***, biochemistry, siderophores 3357
***Rhizopus microsporus* var. *rhizopodiformis***, biochemistry, siderophores 3357
***Rhizopus oryzae***
almonds, storage 7808
aubergines, control 6116
cherries, storage 7752
cucumbers
Jammu and Kashmir 8597
storage 8597
pawpaws, storage 7807
***Rhizopus stolonifer***
apples
Spain 2932
storage 2932
cotton
environmental factors 6278
honeydew 6278
lint 2361
reviews 2361
laboratory tests, cutinase 2109
melons, physiology 8593
nectarines
histopathology 4628
infection 4628
peaches
control 5413
enzymes 5413
pears
Spain 2932
storage 2932
physiology, enzymes 738
soil, mulching 747
tomatoes
control 6105
India 6105
walnuts, storage 7808
yams
control 6068
postharvest decay 6068
***Rhizosphaera kalkhoffii***
*Picea*
Minnesota 7944
morphology 7944
pathogenicity 7944
Wisconsin 7944

***Rhizosphaera kalkhoffii*** *cont.*
*Picea abies*
leaf fall 7119
life cycle 7119
Sweden 7119
Switzerland 1716
**Rhizosphere fungi**
*Ageratum conyzoides* 634
cauliflowers 1539
*Flaveria australasica* 634
groundnuts, environmental factors 1103
lettuces, Russia 427
okras 6906
*Parthenium hysterophorus* 634
*Picea abies*, Germany 7120
**Rhizosphere microorganisms**
activity
*Fusarium oxysporum*, faba beans 6004
*Rhizoctonia solani*, faba beans 6004
***Rhodococcus fascians***
*Lilium*
antagonists 621
continuous cropping 621
soil biology 621
*Pseudomonas fluorescens*, antagonism 2447
sweet peas
identification 4870
pathogenicity 4870
***Rhododendron***
*Cylindrocladium scoparium*, South Africa 1723
*Pestalotia guepini*, control 7951
*Phytophthora cinnamomi*
control 1176
weeds 1176
*Pythium prolatum*, South Africa 1723
***Rhododendron arboreum***
*Leptoxyphium fumago*, Himachal Pradesh 7926
plant extracts, antifungal agents 6462
***Rhododendron japonicum***, *Calonectria kyotensis*, Korea Republic 8759
***Rhododendron maximum***
mycorrhizas
North Carolina 1254
phosphorus 1254
***Rhododendron obtusum***, *Phytophthora cinnamomi*, biological control 8810
***Rhopalosiphum maidis***
transmission
barley yellow dwarf luteovirus 819, 2591
maize dwarf mosaic potyvirus 7496
papaya ringspot potyvirus 7002
safflower mosaic virus 7821
***Rhopalosiphum padi***, transmission, barley yellow dwarf luteovirus 820, 2591, 2636, 3495, 6696
**Rhubarb** (*Rheum rhaponticum*)
*Phoma*
North Carolina 2185
toxins 2185
***Rhus***, *Pseudocercospora rhoina*, West Bengal 751
***Rhus chinensis***, *Septocylindrium rhois*, Korea Republic 8759
***Rhus typhina***, *Schizophyllum commune*, Romania 3171
***Rhyacionia***, epidemiology, *Gibberella fujikuroi* var. *subglutinans*, *Pinus taeda* 4839
***Rhynchosporium orthosporum***, *Dactylis glomerata*, Guizhou 7568
***Rhynchosporium secalis***
barley
cell membranes 4369
control 3585, 5899
Denmark 5899
environmental factors 5898
epidemiology 869
fungicide tolerance 6687
genotype mixtures 3498
Germany 7484
host parasite relationships 871, 4369
Idaho 870
inoculum 869, 5898
integrated control 7484
isoenzymes 2044
Kenya 8333

***Rhynchosporium secalis cont.***
barley *cont.*
models 2031
Ontario 5898
Oregon 870
pathotypes 870
population genetics 2044
resistance 287
screening 8333
UK 6687
varietal reactions 870, 4370
yield losses 2031
***Rhytidhysterium rufulum***, rough lemons, pathogenicity 6995
**Ribavirin**, control, odontoglossum ringspot tobamovirus, *Cymbidium* 7971
***Ribes nigrum*** (*see* Black currants)
***Ribes rubrum*** (*see* Red currants)
**Ribgrass mosaic tobamovirus**
plants, histopathology 1324
tomatoes, Zhejiang 1549
***Ribocuto delphax***, transmission, brome mosaic bromovirus 4373
**Riboflavin**, control, *Phytophthora infestans*, potatoes 4525
**Rice** (*Oryza sativa*)
*Achlya*
control 5952
Louisiana 5952
*Agrobacterium tumefaciens*
biological control 6742
gene expression 4443
air spora, Italy 3639
*Alternaria*, Honshu 5210
*Alternaria padwickii*, reviews 6736
*Aspergillus*, biological control 8390
*Aspergillus flavus*, plant extracts 2733
*Aspergillus niger*, plant extracts 2733
*Aspergillus parasiticus*
aflatoxins 7441
lipids 4271
seeds 4271
toxins 4271
varietal reactions 7441
bacteria
seeds 6712, 6743
varietal reactions 6743
*Ceratobasidium oryzae-sativae*
infection 8370
Iran 1461
sclerotia 916
soil amendments 916
strains 8389
survival 8389
varietal reactions 1461
*Cladosporium*, Honshu 5210
*Cladosporium herbarum*
control 5226
Ningxia 5226
*Clavibacter michiganensis* subsp. *michiganensis*, biological control 6742
*Cochliobolus lunatus*
genetic resources 3647
plant extracts 2733
Tamil Nadu 336, 3647
varietal reactions 3647
Vietnam 4438
*Cochliobolus miyabeanus*
Andhra Pradesh 7550
biological control 668
control 903, 2736, 4428, 5963
fungicide tolerance 4430
India 4430
nitrogen 6716
phenolic compounds 4429
plant extracts 904, 6718
races 5223
reviews 914
São Paulo 5223
seed treatment 5964, 6717
spore dispersal 335
toxins 4429, 7549
varietal reactions 2734, 4415, 5223
*Colletotrichum gloeosporioides* f.sp. *aeschynomene*, spore dispersal 2425
copper, toxicity 3659
*Corticium rolfsii*, biological control 337
*Curvularia*
control 2735
Honshu 5210

**Rice** *cont.*
discoloration
environmental factors 5212
fungi 5954
reviews 5211
varietal reactions 7534
vectors 5954
yield losses 7534
diseases
Andaman and Nicobar Islands 5202
antifungal agents 6719
Asia 5937, 5944
biodiversity 318
biological control 815, 6712
Cameroon 5209
conferences 5946
control 325, 5214, 5936-5938, 5941, 5944, 5946, 5951, 5955, 7535
genetics 8364
Indonesia 5214
integrated pest management 3631
Japan 5941, 5955
Nigeria 5203
nomenclature 1361
Pakistan 8845
Philippines 3631
planting date 5202
reviews 5211
silicon 5203
sustainability 318
USA 5951
varietal reactions 7524
Venezuela 2728, 5204
weeds 8845
yield losses 7524
*Drechslera*, control 2735
*Erwinia carotovora* subsp. *carotovora*, biological control 6742
*Erwinia herbicola*
seeds 8371
toxins 8371
fungi
endophytes 3640
seeds 6712
toxins 7536
fungicides, uptake 8087
*Fusarium*, Honshu 5210
*Fusarium camptoceras*, toxins 8399
*Fusarium oxysporum*
breeding 7551
varietal reactions 8384
*Gaeumannomyces graminis*, detection 4283
*Gaeumannomyces graminis* var. *graminis*
Florida 4434
identification 5982
*Gibberella fujikuroi*
control 1456, 2736, 4432, 6711
elicitors 5207
fertilizers 3645
fungicide tolerance 1456
pathogenicity 3646
plant extracts 2733
seed treatment 6717
seeds 1456
*Glomus*
mycorrhizas
Brazil 6497
irrigation 6497
phosphorus 1852
varietal reactions 1852
*Glomus intraradices*
mycorrhizas
growth 2507
Indonesia 2507
*Humicola lanuginosa*, detection 1460
iron, toxicity 3658
*Magnaporthe grisea*
air spora 1455
breeding 7526
Burundi 7527
China 1454
Colombia 6740
control 903, 4440, 6740
cultural methods 4440
detection 7543
environmental factors 7527
genetics 811, 915, 2742, 4426, 5215, 5957
host parasite relationships 811, 910
immunodiagnosis 332

**Rice** *cont.*
*Magnaporthe grisea cont.*
infection 8377
inoculation 4421
Nigeria 4420
pathogenicity 1454
Philippines 7526
reviews 912
strains 4426
testing 4421
varietal reactions 4420, 4440, 6740, 7538
virulence 915, 2742, 5957
Zhejiang 1455
*Magnaporthe salvinii*
culture media 4431
infection 8370
sclerotia 4431
mineral deficiencies, Haryana 2753
*Monographella albescens*, varietal reactions 2080, 4415
mycoplasma-like organisms, Taiwan 2730
*Nigrospora*, Honshu 5210
*Penicillium*, biological control 8390
*Penicillium citrinum*
toxins 5127
varietal reactions 5127
*Phoma*
control 2735
Honshu 5210
*Phoma sorghina*
Assam 5780
control 6741
São Paulo 6741
seeds 6741
symptoms 3648
varietal reactions 7556
phytoalexins 5940
*Phytophthora megasperma* f.sp. *glycinea*, elicitors 5207
plant extracts
antibacterial agents 6602
antifungal agents 6602, 7525
*Pseudomonas fuscovaginae*
Burundi 7527
control 919
environmental factors 7527
reviews 2630
seeds 919
*Pseudomonas glumae*
genetic transformation 6749
*in vitro* culture 2087
pathogenicity 6749
virulence 2087
*Pseudomonas plantarii*
biological control 5230
control 6711
histopathology 5231
Kyushu 6747
*Pseudomonas syringae* pv. *oryzae*
Hokkaido 6748
Honshu 7563
*Pseudomonas syringae* pv. *syringae*
control 919
enzymes 5974
molecular genetics 5974, 8393
pathogenesis-related proteins 8393
seeds 919
*Pyrenochaeta oryzae*, Florida 1459
*Pyricularia oryzae*
air spora 1455
biological control 5953, 8379
books 7542
Brazil 4427
breeding 907, 2737, 6734
China 324, 1454
control 330, 1453, 2739, 2743, 3644, 4423-4425, 5219, 5956, 5961-5962, 6451, 6726, 6731, 6733, 7537, 7544, 8373, 8376, 8378
crop growth stage 5956
defence mechanisms 5959
Egypt 4424
environmental factors 331, 913
enzymes 2078, 7547, 8382
estimation 5208
ethylene 2078
fatty acids 5959
fertilizers 7546
forecasting 1452, 2741, 5220, 6731

**Rice** *cont.*
*Pyricularia oryzae cont.*
Fujian 907, 8381
fungicide tolerance 6729
genetic resources 5942
genetics 327, 2076, 2737-2738, 4408, 5217-5218, 7542
genotype mixtures 2075
Himachal Pradesh 3642
Honshu 5220, 6723-6727, 6730
host parasite relationships 334, 910, 2078, 8375
hypersensitivity 2738, 8375
*in vitro* selection 4418
induced resistance 911, 2077
integrated control 5960
isoenzymes 905
isolates 4427, 5958
Japan 1452, 2076, 6728
Karnataka 5213, 6720
Korea Republic 4416
Kyushu 6721
leaf age 2744
Mexico 6734
models 2741, 5956
mutants 8380
nitrogen 6716
pathogenicity 908, 1451, 1454, 4427, 8380
Philippines 5958
phytoalexins 6732
plant extracts 904, 2733, 6718, 7548
plant growth regulators 6732
protoplasts 5221
races 907, 1451, 4424, 6722-6723, 7539, 7541, 8374, 8381
resistance 324, 905, 4419, 5216, 5222, 7542
rotations 4416
Russia 2739
sampling 5943
São Paulo 331, 6722
screening 4417
seed treatment 6717
seeds 330
selection 906
Sichuan 7539
spores 5208
strains 906, 908
susceptibility 2744
temperature 2740
testing 6735
Ukraine 913
varietal reactions 319-320, 328, 1451, 3642, 4415, 4424, 5213, 5216-5217, 5222, 5939, 6720-6721, 6735, 7540-7541, 7545, 8374
yield losses 6730
Yunnan 327
Zhejiang 908, 1455
*Pythium*
control 5952
Louisiana 5952
New South Wales 4435
pathogenicity 4435
*Rhizoctonia*
Jiangsu 8248
pathogenicity 8248
spread 7533
symptoms 7533
*Rhizoctonia cerealis*, infection 8370
*Rhizoctonia fumigata*, infection 8370
*Rhizoctonia oryzae*, infection 8370
*Rhizoctonia solani*
Anhui 2083
antagonists 4441
biological control 5953, 7554
Colombia 6739
control 917, 1457-1458, 2083, 5945, 6451, 6738, 7537, 7557
fertilizers 2746, 5965, 6739
forecasting 2083, 4436, 6737
genetics 5967
Guangdong 7552
infection 8370
insects 7552
Iran 1461
Korea Republic 4416
Kyushu 1458
Louisiana 4436
Mississippi 5225

**Rice** *cont.*
*Rhizoctonia solani cont.*
Philippines 3651
physiology 8385
plant density 6739
plant extracts 904, 2733, 6718, 7525
reviews 918
rotations 4416, 5225
sclerotia 5225
seeds 2081
somaclonal variation 5967
spacing 5965
suppressive soils 3651
varietal reactions 1461, 2081, 6738
West Bengal 917, 2081, 5965
yield losses 1458, 2746, 4436, 6737, 7552
rice black-streaked dwarf fijivirus
breeding 4410
control 5205
hosts 901
Korea Republic 322
transmission 901, 5205
rice bunchy stunt virus, purification 3435
rice dwarf phytoreovirus
epidemiology 2569
genetic transformation 2729
histopathology 1449
resistance 2729
rice grassy stunt tenuivirus
Philippines 3635
strains 3635
rice grassy stunt virus, proteins 7531
rice hoja blanca tenuivirus, distribution 6715
rice stripe tenuivirus
China 6715, 7528
chloroplasts 5949
control 5205
genetic transformation 3633
histology 8366
histopathology 5949
Honshu 5206
induced resistance 3633
transmission 5205, 7528
varietal reactions 7529
rice transitory yellowing nucleorhabdovirus, histopathology 1449
rice tungro bacilliform badnavirus
agroinoculation 900
detection 8368
DNA 8369
Fujian 4412
genetic resources 4409
infection 900
isolation 3637
reviews 902
screening 5947
transmission 4411
varietal reactions 4411, 8368
vectors 8368
rice tungro spherical ribotungrovirus
Fujian 4412
isolation 3637
reviews 902
screening 5947
transmission 4411
varietal reactions 4411
rice tungro virus
environmental factors 6714
epidemiology 5948
incubation period 2732
Indonesia 6713
models 8365
Philippines 5948
photosynthesis 5950
physiology 4414
recovery 2073
sampling 5943
South East Asia 8365
symptoms 2731-2732
transmission 6713, 8365
varietal reactions 2732, 5939, 5950
vectors 3636, 6714
West Bengal 6714
rice white leaf virus, transmission 3632
*Sarocladium oryzae*
Bihar 3652
control 3650
estimation 4437
inoculation 8383

**Rice** *cont.*
*Sarocladium oryzae cont.*
insects 2082, 2747, 4439, 5224, 8383
Karnataka 5213
seed germination 7555
survival 3652
Tamil Nadu 2082, 5224
testing 4439
transmission 4433
varietal reactions 2745, 4437, 5213
*Sclerotium*
infection 8370
spread 7533
symptoms 7533
*Sclerotium hydrophilum*, infection 8370
seedborne fungi
China 8372
control 326, 5850
discoloration 2074, 3638
Korea Republic 3638
Uttar Pradesh 5850
varietal reactions 1450
yield losses 1450
seedborne organisms
New South Wales 321
quarantine 321
sugarcane bacilliform badnavirus, molecular genetics 3437
*Thanatephorus cucumeris*
control 5956
crop growth stage 5956
models 5956
varietal reactions 2734
*Thanatephorus sasakii*
China 324
resistance 324
*Ustilaginoidea virens*
Assam 8387
chlamydospores 7553
control 3649
fertilizers 8386
Haryana 5966
infection 7553
Jammu and Kashmir 8388
varietal reactions 8387-8388
yield losses 5966, 8387-8388
viruses
detection 7532
Taiwan 2730
*Xanthomonas oryzae*
genetic resources 5942
screening 5973
*Xanthomonas oryzae* pv. *oryzae*
Bangladesh 5971
biotechnology 2752
breeding 339, 6745, 7526
China 338
climate 2085
control 5945, 7559
crop growth stage 3655
enzymes 5227
genetics 2084, 2086, 2748, 3653-3654, 4408, 4442, 5228, 5970, 6744, 6746, 7558
host parasite relationships 5227
Hubei 3654
*in vitro* selection 5229
induced mutations 339
Jiangsu 8391
Madhya Pradesh 6746
Maharashtra 5968
models 2085
molecular genetics 2750
Myanmar 2749
pathotypes 6744
Philippines 920, 1463, 7526, 7558
physiology 3656
phytoalexins 2751
population genetics 1463
races 920, 1463, 7560
resistance 2751
reviews 922, 2752
screening 5969
seeds 8391
Shaanxi 7559
symptoms 5971
Uttar Pradesh 921
varietal reactions 319-320, 338, 921, 2748-2749, 3655-3656, 5968, 5971-5972, 7558, 8392
virulence 7560

**Rice** *cont.*
*Xanthomonas oryzae* pv. *oryzae cont.*
yield losses 6745
Zhejiang 8391
*Xanthomonas oryzae* pv. *oryzicola*
control 5945
detection 923, 1464-1465, 3657, 7562
forecasting 7561
Hunan 7561
seeds 923, 1465
yellow dwarf
Asia 5107
control 323, 4413
detection 3634
mycoplasma-like organisms 323, 3634, 4413, 5107
Philippines 3634
**Rice black-streaked dwarf fijivirus**
barley, Korea Republic 901
*Digitaria sanguinalis*, Korea Republic 901
*Echinochloa crus-galli*, hosts 901
*Echinochloa frumentacea*, Korea Republic 901
*Eleusine coracana*, hosts 901
*Isachne globosa*, hosts 901
maize, Korea Republic 901
molecular genetics, nucleotide sequences 8227
rice
breeding 4410
control 5205
hosts 901
Korea Republic 322
transmission 901, 5205
wheat, Korea Republic 901
**Rice bunchy stunt virus,** rice, purification 3435
**Rice dwarf phytoreovirus**
electrophoresis 7530
molecular genetics
nucleotide sequences 1339, 2594
translation 2589
plants, histopathology 1324
rice
epidemiology 2569
genetic transformation 2729
histopathology 1449
resistance 2729
**Rice grassy stunt tenuivirus**
rice
Philippines 3635
strains 3635
Taiwan 2730
**Rice grassy stunt virus,** rice, proteins 7531
**Rice hoja blanca tenuivirus,** rice, distribution 6715
**Rice ragged stunt oryzavirus,** rice, Taiwan 2730
**Rice stripe tenuivirus**
molecular genetics
nucleotide sequences 4258, 5091
proteins 3444
RNA 3444, 4258
RNA polymerase 5091
rice
China 6715, 7528
chloroplasts 5949
control 5205
genetic transformation 3633
histology 8366
histopathology 5949
induced resistance 3633
Taiwan 2730
transmission 5205, 7528
varietal reactions 7529
**Rice transitory yellowing nucleorhabdovirus**
plants, histopathology 1324
rice
histopathology 1449
Taiwan 2730
**Rice tungro bacilliform badnavirus**
molecular genetics
nucleotide sequences 1341
reviews 1949
*Oryza*, screening 5947
*Oryza barthii*, genetic resources 4409
*Oryza glaberrima*, genetic resources 4409
**Rice tungro bacilliform badnavirus** *cont.*
rice
agroinoculation 900
detection 8368
DNA 8369
Fujian 4412
genetic resources 4409
infection 900
isolation 3637
reviews 902
screening 5947
transmission 4411
varietal reactions 4411, 8368
vectors 8368
**Rice tungro spherical ribotungrovirus**
molecular genetics, reviews 1949
*Oryza*, screening 5947
rice
Fujian 4412
isolation 3637
reviews 902
screening 5947
transmission 4411
varietal reactions 4411
**Rice tungro virus**
*Oryza barthii*, symptoms 2731
*Oryza glaberrima*, symptoms 2731
rice
environmental factors 6714
epidemiology 5948
incubation period 2732
Indonesia 6713
models 8365
Philippines 5948
photosynthesis 5950
physiology 4414
recovery 2073
sampling 5943
South East Asia 8365
symptoms 2731-2732
transmission 6713, 8365
varietal reactions 2732, 5939, 5950
vectors 3636, 6714
West Bengal 6714
**Rice white leaf virus,** rice, transmission 3632
**Ricide P,** control, *Pyricularia oryzae*, rice 2739
***Ricinis communus,*** *Pseudomonas syringae*, Yugoslavia 4718
***Ricinus communis***
bacteria, rhizosphere 531
diseases, control 2326
fungi, rhizosphere 531
*Macrophomina phaseolina*, environmental factors 5479
**Rickettsia-like organisms**
cherries 2970
peaches 2970
*Trifolium* 2769
weeds 2970
***Rigidoporus catervatus***
control
*Armillaria limonea*, *Pinus radiata* 7939
*Armillaria novae-zelandiae*, *Pinus radiata* 7939
***Rigidoporus lignosus***
*Hevea brasiliensis*
control 2371, 8746
Côte d'Ivoire 7902
Malaysia 2371, 8746
models 5521, 7902
tropical crops, characteristics 1305
***Rigidoporus microporus,*** forest trees, Taiwan 2378
***Robillarda sessilis,*** *Amomum subulatum*, Sikkim 4012
***Robinia pseudoacacia***
*Phaeoisariopsis robiniae*, Korea Republic 8759
*Phytophthora drechsleri*, Iran 1706
*Phytophthora nicotianae* var. *parasitica*, Iran 1706
**Rodanines,** antifungal properties 2467
**Romania**
*Alkanna tuberculata*, *Ramularia inae* 771
*Biscutella laevigata*, *Ramularia biscutellae* 7371
chestnuts, air pollution 3171
crops, diseases 2599, 3460-3461
**Romania** *cont.*
grapes, diseases 1592
lichens, air pollution 3204
*Magnolia grandiflora*, *Botryodiplodia theobromae* 3171
*Pinus sylvestris*, *Lophodermium pinastri* 3171
*Rhus typhina*, *Schizophyllum commune* 3171
sunflowers, seedborne fungi 1628
*Tilletia*, books 7177
triticale
*Erysiphe graminis* 1386
*Septoria* 1386
Uredinales 1900
vegetables, *Alternaria* 6612
wheat
*Erysiphe graminis* 1386
*Septoria* 1386
***Rosa*** (*see also* Roses)
bacteria
latent infections 7125
tissue culture 7125
***Rosa damascena,*** *Diplocarpon rosae*, India 3401
**Rosaceae,** *Leptosphaeria*, taxonomy 3407
**Rose Bengal,** biodegradation, *Phanerochaete chrysporium* 2461
***Rosellinia bunodes,*** *Alnus acuminata*, Costa Rica 587
***Rosellinia necatrix***
*Pinus thunbergii*, pathogenicity 7920
*Populus*
edaphic factors 584
Italy 584
Japan 7920
pathogenicity 7920
sporulation 7920
**Roses** (*see also Rosa*)
bacteria, vase life 3998
*Botrytis cinerea*
biological control 2407
control 2407, 5560, 5832
epidemiology 6327
fungicide tolerance 5832
Greece 5832
plant growth regulators 6329
postharvest decay 5560
spore dispersal 6327
*Coniothyrium fuckelii*
quarantine
India 2406
seeds 2406
*Diplocarpon rosae*
breeding 8807
morphology 4854
varietal reactions 3173, 4854
*Diplodia rosarum*
control 4855
Uttar Pradesh 4855
diseases, UK 2400
*Glomus intraradices*, mycorrhizas, plant water relations 3353
*Marssonina rosae*
isolates 5559
Mississippi 5559, 7952-7953
varietal reactions 5559, 7952-7953
*Myriangium rosicola*
Maharashtra 5563
taxonomy 5563
*Sphaerotheca pannosa*
breeding 8807
plant extracts 692
rain 4281
***Rottboellia cochinchinensis***
fungi, biological control 5613
rottboellia yellow mottle virus
characteristics 633
Nigeria 633
***Rottboellia exaltata*** (*see Rottboellia cochinchinensis*)
**Rottboellia yellow mottle virus**
*Rottboellia cochinchinensis*
characteristics 633
Nigeria 633
***Rotylenchulus reniformis,*** interactions, *Rhizoctonia solani*, cowpeas 4503
***Rotylenchus,*** interactions, *Phytophthora nicotianae* var. *parasitica*, sesame 5821
**Rough lemons**
copper, toxicity 8655

**Rough lemons** *cont.*
*Glomus*
mycorrhizas
Florida 4160
inoculum 4160
*Phytophthora citrophthora*
seasonal variation 8652
sporulation 1603
temperature 1603
*Phytophthora nicotianae* var. *parasitica*
seasonal variation 8652
sporulation 1603
temperature 1603
*Rhizoctonia solani*
control 4670
Himachal Pradesh 4670
*Rhytidhysterium rufulum*, pathogenicity 6995
***Royoungia boletoides***
Queensland 707
taxonomy 707
**RPA 400727,** development 7242
**Rubber** (*see Hevea brasiliensis)*
***Rubus***
fungi, biological control 5612
*Gloeosporium*, Colombia 4633
***Rubus fruticosus*** (*see* Blackberries)
***Rubus idaeus*** (*see* Raspberries)
***Rubus strigosus*** (*see* Raspberries)
***Rumex acetosa***
mycorrhizas
ecology 8143
growth 8144
nutrient uptake 8144
***Ruscus, Pseudomonas andropogonis***, Japan 7141
***Ruscus hypoglossum***
*Botrytis cinerea*
calcium 3170
control 3995
Israel 3995
postharvest decay 3995
susceptibility 3170
symptoms 3995
**Russia**
*Aegilops cylindrica*, brome mosaic bromovirus 1190
beetroots, *Pleospora betae* 1008
black currants, black currant reversion virus 474
cabbages, storage decay 1363
*Carex rostrata, Phaeostalagmus rossicus* 1756
carrots, storage decay 1363
cereals, *Fusarium* 3504
Coniferae, *Fusarium* 3147
crops, diseases, biological control 6607
cucumbers, diseases 2212
Far East
*Pinus koraiensis, Armillaria obscura* 3154
soyabeans, diseases 2108
flax, *Fusarium oxysporum* f.sp. *lini* 7078
fruit, diseases 4041
lettuces, rhizosphere fungi 427
maize, *Setosphaeria turcica* 888
onions, *Peronospora destructor* 422
*Picea abies*, root and butt rots 4844
*Pinus sylvestris*, mycorrhizas 4122
potatoes
diseases 389, 4518
*Phoma exigua* 1514
*Phytophthora infestans* 398, 2159
storage decay 1363, 1367
viruses 5285
*Quercus, Armillaria mellea* 7091
rice, *Pyricularia oryzae* 2739
rye, diseases 4376
shallots, viruses 3743
Siberia
cereals, diseases 245
forest trees, diseases 7903
lucerne, *Fusarium* 8416
oats, brome mosaic bromovirus 4373
potatoes, *Streptomyces* 1521
wheat
*Cochliobolus sativus* 4310
diseases 4309
*Fusarium* 4310
*Leptosphaeria avenaria* 4345
*Leptosphaeria nodorum* 4345

**Russia** *cont.*
Siberia *cont.*
wheat *cont.*
*Mycosphaerella graminicola* 4345
soyabeans, *Septoria glycines* 356
sunflowers, diseases 3899
swedes
diseases 1526
storage 1526
turnips
diseases 1526
storage 1526
vegetables
diseases 4041
storage decay 1367
wheat
*Cercospora* 2024
diseases 838
*Erysiphe graminis* 2641
*Gibberella zeae* 3557
*Monographella nivalis* 3557
*Puccinia recondita* 261, 2641, 5863
***Russula,*** forest trees, mycorrhizas 4961-4962
***Russula cyanoxantha, Pinus***, mycorrhizas 4972
***Russula ochroleuca,*** forest trees, mycorrhizas 6478
**Rusts** (*see* Uredinales)
**Rutabagas** (*see* Swedes)
**Rwanda**
bananas, *Fusarium oxysporum* f.sp. *cubense* 5436
*Phaseolus vulgaris*
*Colletotrichum lindemuthianum* 946
*Phaeoisariopsis griseola* 946
*Phoma exigua* var. *diversispora* 946
**Rye** (*Secale cereale*)
barley mild mosaic bymovirus, symptoms 874
barley yellow dwarf luteovirus, Arkansas 5133
diseases
control 2622, 4376
host parasite relationships 5129
phenolic compounds 5129
Russia 4376
seed treatment 7436
*Erysiphe graminis*
breeding 2011
control 2627
Germany 2627
yield losses 2627
*Fusarium culmorum*
breeding 5908
screening 3591
testing 6691
varietal reactions 3591
*Gaeumannomyces graminis*
cultural methods 5849
isolates 822
nucleotide sequences 822
UK 5849
*Gibberella zeae*
breeding 5908
testing 6691
*Hymenula cerealis*, varietal reactions 2625
*Monographella nivalis*
Germany 7494
testing 7494
varietal reactions 3590
mycorrhizas, phosphorus 1856
*Pseudocercosporella herpotrichoides*
identification 1377
isolates 1377
pathotypes 823
*Pseudomonas syringae* pv. *atrofaciens*
serology 6692
Ukraine 6692
*Puccinia recondita*
host parasite relationships 5182, 8339
ultrastructure 5182
snow moulds, breeding 8340
**Ryegrass mosaic rymovirus**
*Lolium*
varietal reactions 342
yield losses 342
*Lolium multiflorum*
epidemiology 4445
South Africa 4445-4446
temperature 4445

**S-0208,** activity, bacteria 4055
**Sabah,** cocoa, diseases 548
***Saccharomyces cerevisiae***
activity, cotton, bacteria 574
control, *Colletotrichum graminicola*, maize 2066
laboratory tests, flusilazole 81
***Saccharum officinarum*** (*see* Sugarcane)
**Safadan,** activity, *Fusarium* 1588
**Safflower** (*Carthamus tinctorius*)
*Alternaria carthami*
culture 3055
spore germination 3055
*Alternaria helianthi*, control 2310
*Aspergillus niger*, biochemistry 3054
cucumber mosaic cucumovirus, control 5466
*Puccinia carthami*
environmental factors 3056
survival 3056
*Pythium*
Alberta 1631
host range 1631
safflower mosaic virus, vectors 7821
seed treatment, seed germination 4710
seedborne fungi
control 3057
Iran 7822
storage 3057
**Safflower mosaic virus,** safflower, vectors 7821
**Saffron,** *Pseudomonas gladioli*, Zhejiang 1747
**Sahel,** millets, diseases 7518
**Sainfoin** (*see Onobrychis viciifolia)*
***Saintpaulia,*** diseases, control 3187
***Saintpaulia ionantha***
disorders
Germany 3188
symptoms 3188
*Erwinia chrysanthemi*
enzymes 4292
pathogenicity 4292
*Phytophthora nicotianae* var. *parasitica*
control 3187
disinfectants 3187
São Paulo 4004
***Salix***
diseases, Pakistan 3140
*Melampsora*
clonal variation 4812
life cycle 7922
UK 4812, 7922
*Melampsora larici-epitea*, Iran 6550
mycorrhizas, Switzerland 8133
*Xanthomonas populi*
New Zealand 7101
pathogenicity 7101
***Salix babylonica,*** mycorrhizas, New South Wales 7297
***Salix caprea***
*Melampsora*
control 7089
France 7089
*Melampsora capraearum*
control 7089
France 7089
***Salix herbacea,*** *Hymenogaster saliciphilus*, mycorrhizas, Switzerland 8129
***Salix humboldtiana,*** wood destroying fungi, interactions 6505
***Salix purpurea***
*Melampsora*
control 7089
France 7089
*Melampsora capraearum*
control 7089
France 7089
***Salix rosmarinifolia***
*Melampsora*
control 7089
France 7089
*Melampsora capraearum*
control 7089
France 7089
***Salsola kali***
*Gibberella fujikuroi*
seeds 5124
vegetative compatibility groups 5124
**Salt** (*see* Sodium chloride)

***Salvia fruticosa***
plant extracts, antifungal agents 2483
plant oils, antifungal agents 2483
***Salvia glutinosa,*** *Puccinia salvii*, Iran 6550
***Salvia plebeia,*** plant oils, antifungal agents 1834
***Samanea saman***
*Fusarium pallidoroseum*
control 4821
Orissa 4821
***Sambucus nigra***
*Microsphaera vanbruntiana*
France 1158
spread 1158
**Sand**
fungi, Spain 2547
*Fusarium*, Spain 2547
**Sandal** (*see Santalum album*)
***Santalum album***
mycoplasma-like organisms, reviews 1749
spike
integrated control 5539
Karnataka 5539
mycoplasma-like organisms 5539
***Sarcodon imbricatus,*** rhizomorphs 4970
***Sarea,*** *Chamaecyparis obtusa*, Japan 4851
***Sarocladium oryzae***
*Echinochloa colonum*
Bihar 3652
survival 3652
rice
Bihar 3652
Cameroon 5209
control 3650
estimation 4437
Indonesia 5214
inoculation 8383
insects 2082, 2747, 4439, 5224, 8383
Karnataka 5213
reviews 5211
seed germination 7555
survival 3652
Tamil Nadu 2082, 5224
testing 4439
transmission 4433
varietal reactions 2745, 4437, 5213
vectors 1462
**Sarson** (*Brassica napus*)
*Alternaria*
control 999
seeds 999
Uttar Pradesh 999
*Alternaria brassicae*, varietal reactions 1540
*Alternaria brassicicola*
breeding 426
induced mutations 426
*Leptosphaeria maculans*
heat shock proteins 4704
strains 4704
**Satsuma dwarf nepovirus**
citrus, spread 1599
oranges, Japan 3014
**Satsumas**
diseases, control 1605
*Mycosphaerella pinodes*, control 6987
***Satureja ihymbra***
plant extracts, antifungal agents 2483
plant oils, antifungal agents 2483
**Saudi Arabia**
*Citrullus colocynthis*
*Aspergillus carneus* 3194
*Aspergillus ellipticus* 3194
*Lagenaria siceraria*, cucumber green mottle mosaic tobamovirus 1029
soil, fungi 1892
**Savannas**
mycorrhizas
disturbed land 714
Venezuela 714
***Saxegothea conspicua***
mycorrhizas
Chile 5702
morphology 5702
**Scandinavia,** forests, decline 8751
**Scanning electron microscopy**
*Aspergillus flavus* 130
*Choiromyces meandriformis*, spores 6566
*Corticium rolfsii* 1886
**Scanning electron microscopy** *cont.*
*Cronartium flaccidum*
*Pinus nigra* 4841
*Pinus pinaster* 4841
*Elaphomyces*, spores 6566
*Erysiphe graminis*, barley 8330
*Glomus etunicatum*, maize 4161
*Hydnotria tulasnei*, spores 6566
*Pestalotiopsis* 1310
*Phialocephala dimorphospora* 1923
*Phyllosticta* 7340
*Phytophthora infestans*, potatoes 4521
*Pseudomonas plantarii*, rice 5231
*Puccinia coronata*, *Lolium multiflorum* 2091
*Puccinia polypogonis*, *Polypogon monspeliensis* 2093
*Pythium ultimum*, cucumbers 4605
*Stachybotrys atra* 7336
*Thielaviopsis basicola*, chicory 2877
*Tilletia indica*, wheat 5869
*Trichoderma*, *Rhizoctonia solani* 1299
*Trichothecium roseum*, *Pestalotiopsis funerea* 4826
*Tuber*, spores 6566
*Uromyces viciae-fabae* 5009
***Scaphoideus titanus***
transmission
grapes, flavescence dorée 4646
mycoplasma-like organisms 2249, 3856, 6175
***Schima wallichii,*** *Phyllachora euryae*, Sikkim 8769
***Schinus terebinthifolius,*** *Xanthomonas campestris* pv. *mangiferaeindicae*, Réunion 591
***Schizachyrium scoparium***
fungi, roots 3665
mycorrhizas
fertilizers 1855
Illinois 1855
***Schizaphis graminum,*** transmission, barley yellow dwarf luteovirus 2591
***Schizophyllum commune***
*Cassia fistula*, Uttar Pradesh 7905
*Cassia nodosa*, Uttar Pradesh 7905
forest trees
seeds 7905
Uttar Pradesh 7905
preservation 3415
*Rhus typhina*, Romania 3171
*Shorea robusta*, Uttar Pradesh 7905
***Schizothyrium pomi***
apples
control 6914, 7732
Himachal Pradesh 7732
North Carolina 6914
rain 6914
***Schlumbergera truncata***
*Drechslera cactivora*, varietal reactions 7974
*Erwinia carotovora* subsp. *carotovora*, varietal reactions 7974
*Fusarium oxysporum*, varietal reactions 7974
*Phytophthora nicotianae* var. *parasitica*, varietal reactions 7974
***Scilla indica,*** plant extracts, antiviral agents 7394
***Sclerocystis***
biochemistry
carbon 4166
nitrogen 4166
soil, mycorrhizas 4156, 4983
***Sclerocystis dussii,*** *Capsicum*, mycorrhizas 92
***Sclerocystis microcarpa,*** cowpeas, mycorrhizas 8135
***Sclerocystis sinuosa,*** Guangxi 724
***Scleroderma***
cultures, morphology 7334
forest trees, mycorrhizas 4961-4962
*Quercus myrsinaefolia*, mycorrhizas 4130
***Scleroderma citrinum***
*Picea abies*, mycorrhizas 3332
*Pinus patula*, mycorrhizas 7290
***Sclerophthora,*** maize, reviews 887
***Sclerophthora macrospora***
*Avena sterilis* subsp. *ludovici*, Indian Punjab 4301
*Lophochloa pumila*, Indian Punjab 4301
***Sclerophthora macrospora*** *cont.*
oats, Indian Punjab 4301
*Phalaris minor*, mixed infections 3509
*Poa pratensis*, Illinois 7957
*Polypogon monspeliensis*, Indian Punjab 4301
wheat
Japan 5172
mixed infections 3509
***Sclerospora,*** maize, reviews 887
***Sclerospora graminicola***
millets
Burkina Faso 5935
control 5935
*Pennisetum americanum*
control 3628, 7519
environmental factors 6710
enzymes 6709, 7523
estimation 5200
host parasite relationships 897
induced resistance 7521
pathotypes 316
plant water relations 7522
Rajasthan 6710
resistance 316, 6709
reviews 898
seeds 6709
selection 4406, 8360
tissue culture 2724
toxins 7523
virulence 897
West Africa 316
***Sclerotinia***
China 4182
ecotypes 4182
hosts 4182
sunflowers
breeding 1630
control 4708
Yugoslavia 4708
***Sclerotinia asari***
China 4182
ecotypes 4182
hosts 4182
***Sclerotinia fuckeliana***
culture media 5744
fungicide tolerance 4956
genetics 5744
laboratory tests, vinclozolin 141
mutants 4956
***Sclerotinia homoeocarpa***
*Agrostis stolonifera* var. *palustris*
control 345
soil amendments 345
*Festuca*
sporulation 5565
UK 5565
molecular genetics, fungicide tolerance 2223
*Poa annua*
control 345
soil amendments 345
*Poa pratensis*
control 1724
Nematoda 1724
***Sclerotinia minor***
groundnuts
breeding 8686
control 8695
North Carolina 8687
sclerotia 7835
screening 8687
temperature 7835
testing 8689
Texas 7835
USA 8695
Virginia 8687
lettuces, biological control 2875
lupins, Texas 5573
***Sclerotinia sclerotiorum***
apothecia, antagonists 740
*Arabidopsis thaliana*, host parasite relationships 7349
*Bacillus polymyxa*, antagonism 2791
bacteria, antagonism 5003
biochemistry, enzymes 1883, 5760
carrots
antagonists 2169
control 410
storage 410, 2169

***Sclerotinia sclerotiorum* cont.**
cauliflowers
antagonists 8510
control 8512
fertilizers 8512
Indian Punjab 8512
celery, biological control 3469, 8504
*Centaurea cyanus*, India 4021
*Chaetomium trilaterale* var. *diporum*, antagonism 6522
chickpeas, control 7621
China 4182
*Coniothyrium minitans*
antagonism 1872
hyperparasitism 1626, 7016
*Coriandrum sativum*, physiology 7980
cucumbers
biological control 6901
control 448, 4604, 6134
Czechoslovakia 6134
ecotypes 4182
*Erwinia herbicola*, antagonism 2791
*Fusarium*, antagonism 4177
*Gliocladium*, hyperparasitism 7789
*Gliocladium virens*, antagonism 8510
hosts 4182
kiwifruits
environmental factors 8637
New Zealand 7789, 8637
sclerotia 7790
survival 7789
laboratory tests
hydantoins 3289
plant extracts 2483
lettuces
biological control 3469, 8504
Israel 7667
survival 7667
linseed
UK 8667, 8673
varietal reactions 8667
onions, control 6076
peas
cultural methods 8250
UK 8250
varietal reactions 8458
*Penicillium*, antagonism 1872, 4177
*Phaseolus coccineus*, seeds 4478
*Phaseolus vulgaris*
antagonists 2791
biological control 1494
control 2121
rotations 8443
screening 3684
selection 8439
varietal reactions 8443
*Phoma nebulosa*, hyperparasitism 7016
physiology, enzymes 5764
potatoes
cultural methods 8250
South Africa 7649
UK 8250
rape
biological control 6236
breeding 2295
Canada 519
clonal variation 519
control 2297, 3890, 6235
cultural methods 8250
Denmark 7816
forecasting 517, 8670
hyperparasities 7016
rotations 7816
Saskatchewan 8670
Sweden 517, 1352
UK 2297, 7016, 8250, 8667
varietal reactions 8667
yield losses 6236
Zhejiang 6235
safflower
Iran 7822
seeds 7822
sclerotia
germination 735
temperature 735
soil
antagonists 1872
biological control 6236
control 6076, 6543
herbicides 1872
sclerotia 7789

***Sclerotinia sclerotiorum* cont.**
soil *cont.*
yield losses 6236
soyabeans
biological control 226, 2608
induced mutations 8427
*Sporidesmium sclerotivorum*, antagonism 1872
*Streptomyces griseoviridis*, hyperparasitism 4175
sunflowers
ascospores 8676
biological control 226, 1626, 2608, 7017
breeding 3046
control 1627, 3897-3898, 5841, 8677
cropping systems 1626
epidemiology 8676
France 3898
genetics 5465
Heilongjiang 3897
host parasite relationships 5465
Hungary 2301
infection 1095
inoculum 2309
Liaoning 3053
Manitoba 1629
pathogenesis-related proteins 2305
resistance 1094, 2299
seeds 3053
UK 8667, 8676
varietal reactions 1629, 2301, 2305, 8667
*Taraxacum officinale*, biological control 6356
*Teratosperma oligocladium*, antagonism 1872
*Trichoderma*, hyperparasitism 1626, 7789
*Trichoderma harzianum*, antagonism 4177, 8510
*Trichoderma koningii*, antagonism 4177
*Trichoderma viride*, antagonism 2169, 8510
***Sclerotinia squamosa***
*Gliocladium roseum*, antagonism 6072
onions
antagonists 6072
breeding 2858
control 6071
drought 6072
genetics 2858
inoculum 6071
reviews 6074
sporulation, conidia 5755
*Trichoderma viride*, antagonism 6072
***Sclerotinia trifoliorum***
China 4182
ecotypes 4182
hosts 4182
lucerne
control 7564
Ohio 7564
*Trifolium*, varietal reactions 4460
*Trifolium pratense*
control 2771, 7564
France 2771
Ohio 7564
varietal reactions 2771
**Sclerotiniaceae**, ultrastructure, asci 4184
***Sclerotium***, rice, infection 8370
***Sclerotium cepivorum***
*Allium*
control 3744
screening 4546
garlic
Colombia 2859
control 2859, 3747
induced resistance 7661
soil solarization 4544
Spain 4544
ultrastructure 2862
laboratory tests, plant residues 6540
onions
bacteria 4549
biological control 423, 4549
control 2176, 4545
Germany 4545
sclerotia 4549
sclerotia
germination 3748
morphology 993

***Sclerotium cepivorum* cont.**
sclerotia *cont.*
survival 993
*Trichoderma*, antagonism 423
***Sclerotium hydrophilum***
rice
infection 8370
spread 7533
symptoms 7533
***Sclerotium rolfsii*** *(see Corticium rolfsii)*
***Scorzonera calyculata*, *Puccinia jackyana***, Iran 6550
**Scots pine** *(see Pinus sylvestris)*
***Scutellospora***
electron microscopy 6488
soyabeans, mycorrhizas 1863
***Scutellospora armeniaca*,** soil, mycorrhizas 3350
***Scutellospora calospora***
horticultural crops, mycorrhizas 7304
pastures, mycorrhizas 97
*Trifolium subterraneum*, mycorrhizas 5718, 8142
***Scutellospora coralloidea*,** soil, mycorrhizas 7303
***Scutellospora gregaria*,** spore germination 4999
***Scutellospora heterogama***
avocados, mycorrhizas 1273
*Leucaena leucocephala*, mycorrhizas 4977
mangoes, mycorrhizas 1273
pawpaws, mycorrhizas 1273
soil, mycorrhizas 7303
***Scutellospora nigra*,** soil, mycorrhizas 4983
***Scutellospora verrucosa*,** pigeon peas, mycorrhizas 4975
***Scytalidium vaccinii***
molecular genetics
RNA 6502
taxonomy 6502
*Vaccinium*, mycorrhizas 4172
***Secale cereale*** *(see* Rye)
***Sechium edule*,** storage decay, control 3793-3794
**Seed pathology**, forest trees 1146
**Seed testing**
Colombia 1957
*Echinochloa frumentacea* 2726
*Eleusine coracana* 2727
**Seed treatment**
asparagus 8532, 8535
aubergines 8572
barley 2689, 5893, 6677
beetroots 420
*Brassica* 6081
*Bromus inermis* 2755
*Capsicum* 1023
cereals 244, 827, 3500, 6419, 7439, 8265-8267
chickpeas 2136, 2807, 6022, 6801, 7621
*Coriandrum sativum* 8828
cotton 816, 1133-1134, 1136, 1138, 3110, 5517
cowpeas 2147, 3709, 7630
crops 4099, 6424
cucumbers 2216
*Echinochloa frumentacea* 2726
equipment 69
*Eucalyptus tereticornis* 6292
faba beans 8432
fodder beet 816, 3086
garlic 2859
grasses 4451
groundnuts 530, 1103, 3068, 7032, 8690
Indian mustard 5313
lentils 7618
lettuces 7251
maize 879, 881, 2714, 4390, 4399, 5850, 5912, 8348
onions 994
peas 244, 938, 953, 6013, 7614
*Pennisetum americanum* 3628, 7519
*Phaseolus vulgaris* 369, 946, 2792, 3689, 5259, 6779, 6786, 8445
rape 518, 4699
reviews 1975
rice 330, 919, 2736, 4428, 5850, 5963-5964, 6733, 6741
rye 7436
safflower 3057, 4710

**Seed treatment** *cont.*
sesame 7038
soyabeans 938, 5841, 6765, 7595
squashes 3787
*Stylosanthes guianensis* 2773
sugarbeet 3086, 3091
sugarcane 3083
sunflowers 1627, 5841
tomatoes 7251, 7691
*Trifolium* 934
triticale 5183
UK 6424
USSR 1812
*Vigna mungo* 2815
*Vigna radiata* 2816, 7629
*Vigna umbellata* 6026
watermelons 3799
wheat 248, 265, 2642, 2645-2646, 2649, 2666, 2668, 2682, 3516, 3538, 4310, 4313, 5850, 5868, 6651, 6674, 7436, 7453, 7456, 8280, 8321, 8323
**Seedborne bacteria**
cotton 1672
cowpeas 2817
rice 6712, 6743
wheat 1405
**Seedborne fungi**
*Abies alba* 8804
asparagus 8532
*Brassica napus* 999
*Canavalia* 6030
*Capsicum* 1023, 2881
carrots 2852
cereals 4295, 7439, 8268
chickpeas 2807
Coniferae 5549
*Coriandrum sativum* 8828
cotton 1672
cucumbers 2918
*Dalbergia sissoo* 3975
*Dimocarpus longan* 5431
*Echinochloa frumentacea* 2726
*Eleusine coracana* 2727
faba beans 3682, 7605, 8434-8435
fenugreek 625
groundnuts 3068, 6248
guar 4504
Indian mustard 4555
linseed 6237
*Litchi chinensis* 5431
*Lolium perenne* 8398
*Luffa acutangula* 2918
lupins 1478
maize 879, 2051-2052, 3596, 5850, 5912-5913, 6699, 8348
*Mucuna pruriens* 1744
okras 6907
*Oroxylum indicum* 4820
peas 953
*Pennisetum americanum* 4407
*Phaseolus coccineus* 4478
*Phaseolus vulgaris* 3687
pigeon peas 3706, 4499
*Pinus* 6312
*Pinus gerardiana* 8791
pumpkins 2918
radishes 2866
rice 326, 1450, 2074, 3638, 5850, 6712, 8372
rubber 2369
safflower 3057, 7822
*Solanum gilo* 2881
sorghum 314, 894, 3624, 5197, 7511, 8358
soyabeans 365, 1485, 2105, 6765, 7586, 7595-7596
sunflowers 1628
tomatoes 2881, 4579
vegetables 7433
wheat 1385, 1989, 4312, 5137, 5850, 7456
**Seedborne organisms**
*Acremonium coenophialum, Festuca arundinacea* 341, 344, 4448
alfalfa mosaic alfamovirus, *Medicago polymorpha* 1476
*Alternaria*
*Capsicum* 1023
linseed 3045
*Phaseolus vulgaris* 2798
**Seedborne organisms** *cont.*
*Alternaria cont.*
sunflowers 3894
*Alternaria alternata*
*Coriandrum sativum* 8828
*Cyclamen persicum* 6347
rice 3640
soyabeans 358
sunflowers 3895
*Vigna umbellata* 6026
wheat 2646, 8275
*Alternaria brassicae, Brassica oleracea* 3754
*Alternaria brassicicola, Brassica oleracea* 3754
*Alternaria helianthi*, sunflowers 525, 3895
*Alternaria longissima, Capsicum* 7702
*Alternaria sesami*, sesame 1106
*Alternaria tenuissima*, wheat 8275
artichoke yellow ringspot nepovirus, faba beans 943
*Ascochyta fabae*, faba beans 7606
*Ascochyta fabae* f.sp. *lentis*, lentils 4488
asparagus 2 ilarvirus, asparagus 8521
*Aspergillus*
cereals 2629
groundnuts 4717, 7033
Indian mustard 3755
*Aspergillus candidus*, groundnuts 8691
*Aspergillus chevalieri*, groundnuts 8691
*Aspergillus flavus* 130
*Capsicum* 1023
chickpeas 957
*Coriandrum sativum* 8828
cotton 3947
groundnuts 3907, 5474, 7836, 8691
guar 8471
*Hevea brasiliensis* 2369
maize 4280, 6704
soyabeans 7596, 7598
sunflowers 4280
*Vigna umbellata* 6026
*Aspergillus flavus* var. *columnaris*, maize 303
*Aspergillus fumigatus*, guar 8471
*Aspergillus nidulans*, soyabeans 7598
*Aspergillus niger*
chickpeas 957
groundnuts 7836, 8691
guar 8471
*Hevea brasiliensis* 2369
onions 994
soyabeans 7596, 7598
*Aspergillus parasiticus*
cowpeas 4271
groundnuts 4271
rice 4271
sorghum 4271
*Vigna radiata* 4271
*Aspergillus ruber*, groundnuts 8691
bean common mosaic potyvirus
cowpeas 381
*Phaseolus vulgaris* 3683
bean yellow mosaic potyvirus, faba beans 6002
*Bipolaris sacchari*, sugarcane 3083
*Bipolaris zeae, Pennisetum clandestinum* 2760
*Botryodiplodia theobromae*
cotton 5517
*Hevea brasiliensis* 2369-2370
*Botrytis cinerea*, sunflowers 6241
cereals 6420
*Ciboria batschiana, Quercus robur* 2384
*Cladosporium herbarum, Coriandrum sativum* 8828
*Clavibacter michiganensis* subsp. *michiganensis*, tomatoes 7693
*Claviceps purpurea*, grasses 4451
*Cochliobolus carbonum*, maize 2712
*Cochliobolus lunatus*, sorghum 7512
*Cochliobolus miyabeanus*, rice 2736, 5964, 6717
*Cochliobolus sativus*, wheat 2646, 7456
*Colletotrichum capsici, Capsicum* 1023
*Colletotrichum dematium, Capsicum* 1560
*Colletotrichum gossypii*, cotton 571
**Seedborne organisms** *cont.*
*Colletotrichum gossypii* var. *cephalosporioides*
cotton 570-571
*Phaseolus vulgaris* 7072
*Colletotrichum graminicola*, maize 2712
*Colletotrichum lindemuthianum, Phaseolus vulgaris* 6785
*Coniothyrium fuckelii*, roses 2406
*Corticium rolfsii*, sunflowers 3896
cowpea mosaic comovirus, cowpeas 381
cucumber mosaic cucumovirus
Cucurbitaceae 5362
lupins 7584
*Phaseolus vulgaris* 3683, 5256
*Curtobacterium flaccumfaciens* pv. *flaccumfaciens, Vigna radiata* 7625
*Diaporthe phaseolorum, Capsicum* 3783
*Didymella bryoniae*, watermelons 1567
*Didymella lycopersici, Capsicum* 3783
*Epicoccum nigrum*, rice 3640
*Erwinia, Festuca arundinacea* 341
*Erwinia herbicola*, rice 8371
*Erwinia stewartii*, maize 5196
*Fusarium*
barley 6636
*Capsicum* 1023
*Coriandrum sativum* 8828
cotton 3955, 5517
oats 4375
*Pennisetum americanum* 3505
*Pseudotsuga menziesii* 5554
sorghum 3505
wheat 1402, 6636, 6671
*Fusarium culmorum*
cereals 5852
wheat 7456
*Fusarium equiseti*
*Pennisetum americanum* 3505
rice 3640
sorghum 3505
*Fusarium oxysporum*
*Hevea brasiliensis* 2369
lucerne 6755
*Vigna umbellata* 6026
*Fusarium oxysporum* f.sp. *sesami*, sesame 1106
*Fusarium proliferatum*
melons 5124
onions 5124
*Fusarium solani, Hevea brasiliensis* 2369
*Gibberella*, oats 4375
*Gibberella avenacea*, cereals 5852
*Gibberella fujikuroi*
maize 2712, 2714, 5124, 5190
rice 1456, 2736, 6717
*Salsola kali* 5124
sorghum 7512
*Gibberella zeae*
soyabeans 358
wheat 1402, 6639, 6671, 6674
*Glomerella cingulata*
cotton 7894
*Dalbergia sissoo* 1159
*Hevea brasiliensis* 2369
*Glomerella gossypii*, cotton 5517
*Helminthosporium sesami*, sesame 1106
*Humicola lanuginosa*, rice 1460
*Khuskia oryzae*, rice 3640
*Leptosphaeria maculans*, rape 518
*Leptosphaeria nodorum*
barley 6636
wheat 1375, 2017, 6636, 6658, 6660
lettuce mosaic potyvirus, *Sinapis arvensis* 4559
*Macrophomina phaseolina*
*Phaseolus lunatus* 8444
sesame 6253
sunflowers 7018
maize dwarf mosaic potyvirus, maize 2706
*Monographella nivalis*, cereals 5852
*Myrothecium roridum*, sesame 1106
*Myrothecium verrucaria, Capsicum* 1558
papaya ringspot potyvirus, pawpaws 4683
pea seed-borne mosaic potyvirus
*Lathyrus* 2772
peas 949, 1498, 2130, 5268, 5270, 6011, 8451
*Vicia* 2772

**Seedborne organisms** *cont.*
peanut mottle potyvirus, groundnuts 8681
peanut stripe potyvirus, groundnuts 8681
*Penicillium*
chickpeas 957
*Coriandrum sativum* 8828
*Cyclamen persicum* 6347
groundnuts 4717, 7033
*Vigna umbellata* 6026
*Penicillium oxalicum*
maize 4399
soyabeans 7598
*Peronospora parasitica*, radishes 4539
*Phaeoisariopsis griseola*, *Phaseolus vulgaris* 5261
*Phaseolus vulgaris* 6774
*Phoma exigua*, *Cyclamen persicum* 6347
*Phoma medicaginis* var. *sojae*, soyabeans 5997
*Phoma sorghina*
rice 6741
sorghum 1447, 3611
*Phomopsis*, soyabeans 5993
*Phomopsis heveae*, *Hevea brasiliensis* 2369
*Phomopsis longicolla*, soyabeans 358, 5248
*Pleiochaeta setosa*, lupins 1477
*Pleospora betae*
fodder beet 4540
spinach beets 4540
potato spindle tuber viroid, potatoes 396
*Pseudomonas*, Cruciferae 1542
*Pseudomonas fuscovaginae*, rice 919
*Pseudomonas solanacearum*, kenaf 5520
*Pseudomonas syringae* pv. *lachrymans*, marrows 2924
*Pseudomonas syringae* pv. *syringae*
rice 919
tomatoes 6873
weeds 6873
*Pseudomonas syringae* pv. *tomato*
tomatoes 6873
weeds 6873
*Pseudomonas viridiflava*
tomatoes 6873
weeds 6873
*Puccinia striiformis*, barley 5893
*Pyrenophora graminea*, barley 1375
*Pyrenophora teres*, barley 286
*Pyricularia*, wheat 2646
*Pyricularia oryzae*, rice 330, 6717
*Pythium ultimum*
peas 938
soyabeans 938
quarantine 646
*Racodium therryanum*, *Picea jezoensis* 6319
*Rhizoctonia solani*
cotton 5517
lucerne 6755
rice 2081
*Rhizopus*, groundnuts 4717
rice 321
*Schizophyllum commune*, forest trees 7905
*Sclerospora graminicola*, *Pennisetum americanum* 6709
*Sclerotinia sclerotiorum*, sunflowers 3053
soyabeans 1483, 7587
*Stachybotrys*, *Coriandrum sativum* 8828
*Stagonospora*, *Hevea brasiliensis* 2369
strawberry latent ringspot nepovirus
parsley 6351
strawberries 3201
subterranean clover mottle sobemovirus, *Trifolium subterraneum* 4458
*Thielaviopsis basicola*, groundnuts 530
*Tilletia controversa*, wheat 265
*Tilletia indica*, wheat 8303
tobacco mosaic tobamovirus
aubergines 1009
*Capsicum* 1009, 1019
tomatoes 1009
tomato mosaic tobamovirus, tomatoes 6859
trees 3963
turnip yellow mosaic tymovirus, *Alliaria petiolata* 7985
*Ustilago segetum* var. *nuda*, barley 2691
*Ustilago segetum* var. *tritici*, wheat 5871

**Seedborne organisms** *cont.*
*Verticillium*, *Eucalyptus tereticornis* 6292
*Verticillium albo-atrum*, lucerne 6755
wheat 830
*Xanthomonas campestris*
cabbages 1001
*Crambe abyssinica* 7848
*Xanthomonas campestris* pv. *campestris*, Cruciferae 1542
*Xanthomonas campestris* pv. *glycines*, soyabeans 7586
*Xanthomonas campestris* pv. *malvacearum*, cotton 1138
*Xanthomonas campestris* pv. *phaseoli*, *Phaseolus vulgaris* 369-370, 3689, 5267
*Xanthomonas campestris* pv. *sesami*, sesame 7038
*Xanthomonas campestris* pv. *undulosa*, cereals 828
*Xanthomonas campestris* pv. *vesicatoria*, tomatoes 7694
*Xanthomonas campestris* pv. *vignaeradiatae*, *Vigna radiata* 3710
*Xanthomonas campestris* pv. *vignicola*, cowpeas 3710
*Xanthomonas oryzae* pv. *oryzae*, rice 8391
*Xanthomonas oryzae* pv. *oryzicola*, rice 923, 1465
zucchini yellow mosaic potyvirus, marrows 3786
**Seedborne viruses**
barley 5988
cowpeas 382
faba beans 5988
lentils 5988
sugarbeet 4725
***Seimatosporium discosioides***, blackberries, taxonomy 4634
***Seimatosporium grammitum***, *Paeonia suffruticosa*, taxonomy 6559
***Seimatosporium kriegerianum***
*Chamerion angustifolium*
Bulgaria 6554
taxonomy 6554
***Seimatosporium rosae***, *Paeonia*, conidia 6559
***Seiridium cardinale***
*Cupressus*, Italy 3985, 7955
*Cupressus glabra*
monoterpenes 4850
resistance 4850
*Cupressus sempervirens*
Europe 7946
Italy 1721
monoterpenes 4850
resistance 4850
selection 1721
***Seiridium cupressi***, *Cupressus*, toxins 1173
***Selenicereus magalanthus***, *Glomus manihotis*, mycorrhizas, Nematoda 5724
***Selenophoma mahoniae***
*Mahonia repens*
Colorado 1177
taxonomy 1177
**Seminars** (*see* Conferences)
***Senecio integrifolius***, tomato black ring nepovirus, Czechoslovakia 1755
***Senecio nemorensis* subsp. *fuchsii***, tomato black ring nepovirus, Czechoslovakia 1755
***Senecio vulgaris***
*Erysiphe cichoracearum* var. *fischeri*
host parasite relationships 8854-8856
UK 8854-8855
virulence 8854
*Puccinia lagenophorae*
Germany 7426
infection 2431
roots 3206
secondary pathogens 7170
**Senegal**
*Afzelia africana*, mycorrhizas 2495
plant protection 8257
***Septobasidium***
woody plants
hosts 606
insects 606

***Septocylindrium rhois***, *Rhus chinensis*, Korea Republic 8759
***Septoria***
phylogeny 744
*Populus*, Jammu and Kashmir 4810
triticale
control 1386
Romania 1386
varietal reactions 1386
wheat
breeding 250, 8278
control 1386
forecasting 7475
induced mutations 8278
Romania 1386
USSR 6659
varietal reactions 1386
***Septoria aceris***, *Acer rubrum*, Florida 1703
***Septoria apiicola***
celery
adjuvants 6603
control 6603
inoculation 2183
laboratory tests
adjuvants 7239
fungicides 7239, 7248
***Septoria avenae*** (*see Leptosphaeria avenaria*)
***Septoria bauhiniae***
*Bauhinia purpurea*
Assam 7954
taxonomy 7954
***Septoria chrysanthemella***, chrysanthemums, control 8811
***Septoria divaricatae***
*Phlox*
China 5574
control 5574
***Septoria galinsogae***, Himachal Pradesh 5778
***Septoria glycines***
soyabeans
Russia 356
toxins 8429
varietal reactions 356
***Septoria helianthi***, IMI distribution maps 3389
***Septoria hyperici***, Himachal Pradesh 5778
***Septoria lycopersici***
tomatoes
São Paulo 6871
screening 5336
symptoms 6856
Uttar Pradesh 8236
varietal reactions 6871
***Septoria nodorum*** (*see Leptosphaeria nodorum*)
***Septoria pleralensis***, bananas, varietal reactions 492
***Septoria ribis***
black currants
biochemistry 4636
resistance 4636
***Sequoia sempervirens***
fungi
endophytes 7107
USA 7107
*Pestalotiopsis funerea*
host parasite relationships 5555
plant oils 5555
*Pleuroplaconema*
host parasite relationships 5555
plant oils 5555
***Sequoiadendron giganteum***, *Phytophthora citrophthora*, California 7947
***Serratia***
activity, *Botrytis cinerea*, cabbages 6078
antagonism
*Alternaria brassicicola* 4553
*Botrytis cinerea* 4553
***Serratia liquefaciens***
antagonism
*Alternaria brassicicola* 3751
*Botrytis cinerea* 3751
***Serratia marcescens***
control
*Botrytis* 7685
*Botrytis fabae*, faba beans 7685
***Serratia plymuthica***
antagonism
*Alternaria brassicicola* 3751
*Botrytis cinerea* 3751

**Sesame** (*Sesamum indicum*)
*Alternaria sesami*
seeds 1106
West Bengal 752
*Corticium rolfsii*, biological control 1105
*Corynespora cassiicola*, control 8696
*Erysiphe cichoracearum*, breeding 6254
*Fusarium*
biological control 1107
Korea Republic 1107
Mexico 7037
soil water 7037
*Fusarium oxysporum*, rotations 7843
*Fusarium oxysporum*-f.sp. *sesami*
antagonists 2327
rotations 2327
seeds 1106
*Fusarium oxysporum* f.sp. *vasinfectum*, biological control 7844
*Fusarium solani*, rotations 7843
*Helminthosporium sesami*, seeds 1106
*Macrophomina phaseolina*
isolates 7845
Mexico 7037
Rajasthan 6253
seeds 6253
soil water 7037
Venezuela 7845
virulence 7845
*Myrothecium roridum*, seeds 1106
*Oidium*, control 8696
phyllody
Asia 5107
Iran 1104
mycoplasma-like organisms 1104, 5107
transmission 1104
*Phytophthora nicotianae* var. *parasitica*
biological control 7844
control 8696
induced mutations 7036
Nematoda 5821
screening 7036
Sri Lanka 7036
*Pythium*
biological control 1107
Korea Republic 1107
Mexico 7037
soil water 7037
*Spiroplasma citri*
Turkey 5111
vectors 5111
*Xanthomonas campestris* pv. *sesami*
Assam 7846
control 7038
races 1108
seeds 7038
varietal reactions 1108
***Sesamum indicum*** (*see* Sesame)
***Sesbania exaltata***
*Colletotrichum truncatum*
bacteria 6357, 8847
biological control 3208, 6357, 8847
conidia 1763
nutrients 1763
***Sesbania grandiflora***
*Glomus aggregatum*
mycorrhizas
growth 4986
nitrogen fixation 4986
sesbania mosaic virus, structure 6584
**Sesbania mosaic virus,** *Sesbania grandiflora*, structure 6584
***Sesbania rostrata,*** *Pseudomonas solanacearum*, Malaysia 5238
***Sesbania sesban***
*Glomus macrocarpum*
mycorrhizas
growth 4168
phosphorus 4168
**Sesquiterpenoid lactones**
activity
*Gibberella zeae* 4951
*Leptosphaeria maculans* 4951
*Verticillium albo-atrum* 4951
***Setaria faberi***
wheat streak mosaic rymovirus
Kansas 5134
reservoir hosts 5134
***Setaria italica***
*Aspergillus flavus*, aflatoxins 3630
***Setaria italica*** *cont.*
*Corticium rolfsii*, screening 4405
*Pyricularia setariae*, varietal reactions 5201
*Uromyces setariae-italicae*
China 2723
varietal reactions 2723
***Setaria viridis***
flame chlorosis, Manitoba 6355
wheat streak mosaic rymovirus
Kansas 5134
reservoir hosts 5134
***Setosphaeria rostrata***
fodder crops, Egypt 6627
*Pennisetum americanum*, genetic resources 2070
wheat
detection 1989
seeds 1989
***Setosphaeria turcica***
fodder crops
Egypt 6627-6628
toxins 6629
laboratory tests, plant extracts 2481
maize
epidemiology 2058
genetics 3600, 4385, 4391
isoenzymes 5920
Karnataka 2060
races 4391
resistance 5920
reviews 2058
Russia 888
São Paulo 6698
sowing date 2060
testing 7504
tillage 1424
Uganda 4391
USSR 882, 2053
varietal reactions 2057, 2059, 3601, 6698, 7503, 8351
yield losses 2057
sorghum
plant extracts 7515
Tamil Nadu 1440
Tanzania 4404
varietal reactions 1434, 1440-1441
**Sewage,** activity, *Cronartium fusiforme*, *Pinus taeda* 4836
**Shade trees**
*Cytospora*, control 3129
diseases
New Jersey 3129
varietal reactions 3122
*Nectria*, control 3129
*Verticillium*, control 3129
*Xylella*, control 3129
**Shallot latent carlavirus,** shallots, elimination 2173
**Shallot X virus,** molecular genetics, nucleotide sequences 5081
**Shallots** (*Allium ascalonicum*)
onion yellow dwarf potyvirus, elimination 2173
shallot latent carlavirus, elimination 2173
viruses, Russia 3743
***Shorea compressa***
*Boletus*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Russula*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Scleroderma*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
***Shorea pinanga***
*Boletus*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Russula*
mycorrhizas
growth 4962
***Shorea pinanga*** *cont.*
*Russula cont.*
mycorrhizas *cont.*
Indonesia 4962
nutrients 4961
*Scleroderma*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
***Shorea robusta,*** *Trametes persoonii*, physiology 8762
***Shorea stenoptera***
*Boletus*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Russula*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Scleroderma*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
**Shortleaf pine** (*see Pinus echinata)*
**Shrubs**
algae
control 1722
Washington 1722
lichens
control 1722
Washington 1722
mosses
control 1722
Washington 1722
**Sierra Leone**
cocoa, *Phytophthora palmivora* 1654
groundnuts
*Mycosphaerella arachidis* 529
*Mycosphaerella berkeleyi* 529
***Silene dioica***
*Ustilago violacea*
ecology 631, 5607
Sweden 631, 5607
***Silene nivea,*** mycorrhizas, phosphorus 1268
***Silene noctiflora,*** mycorrhizas, phosphorus 1268
**Silicon**
activity
*Pythium ultimum*, cucumbers 6898
*Sphaerotheca fuliginea*, cucumbers 2925
deficiency, rice 5203
**Silver**
activity
*Fusarium oxysporum* 8148
*Phytophthora* 8148
*Pythium aphanidermatum* 8148
*Thielaviopsis basicola* 8148
**Silver fir** (*see Abies alba)*
**Silver thiosulfate,** activity, *Pythium ultimum*, *Pelargonium hortorum* 1733
**Silwet L-77,** activity, *Venturia inaequalis*, apples 7735
***Sinapis alba***
beet curly top intergeminivirus
California 6843
transmission 6843
turnip mosaic potyvirus, transmission 4552
***Sinapis arvensis***
lettuce mosaic potyvirus
immunodiagnosis 4559
seeds 4559
Turkey 4559
**Singapore**
*Ageratum conyzoides*, ageratum yellow vein virus 4026
*Asystasia gangetica*, *Glomerella cingulata* 4003
*Asystasia nemorum*, *Glomerella cingulata* 4003
cucumbers, zucchini yellow mosaic potyvirus 443
***Sirococcus clavigignenti-juglandacearum,*** *Juglans cinerea*, Ontario 586

***Sirococcus strobilinus*, Coniferae, seeds 5549**
***Sirosporium celtidis*, Himachal Pradesh 7356**
***Sirosporium gliricidiae*, West Bengal 754**
***Sitanion hystrix***
mycorrhizas
herbicides 7308
Utah 7308
**Sitka spruce** (*see Picea sitchensis*)
***Sitobion avenae*, transmission, barley yellow dwarf luteovirus 2636, 2703**
**Slash pine** (*see Pinus elliottii*)
**Slovakia**
barley, *Pyrenophora teres* 2698
forests
acid deposition 4793
air pollution 4793
decline 3964
diseases 3964
hops, diseases 3203
*Hymenoscyphus* 7364
taxonomy 1919
*Quercus*, decline 6293, 7914
sugarbeet, *Peronospora farinosa* f.sp. *betae* 4729
wheat, *Erysiphe graminis* 4339
**Slovenia**
forest trees
air pollution 1149
decline 1149
diseases 5529
**Small fruits**
diseases
New Zealand 472
transmission 472
***Smilax macrophylla*, *Glomerella cingulata*, Assam 3400**
**Smuts** (*see* Ustilaginales)
**SN-539865**, control, *Rhizoctonia solani*, barley 5901
**Snap beans** (*see Phaseolus vulgaris*)
**Snow moulds**, rye, breeding 8340
**Sodium**, toxicity, mandarins 4679
**Sodium chloride**
control
*Fusarium oxysporum*, asparagus 8527
*Gibberella fujikuroi*, asparagus 8527
**Sodium diethyldithiocarbamate**, activity, *Pyricularia oryzae* 3643
**Sodium hypochlorite**, control, *Tilletia controversa*, wheat 265
**Sodium metabisulfite**, control, *Litchi chinensis*, storage decay 3028
**Sodium propionate**, control, *Alternaria raphani*, radishes 2869
**Soil**
*Acaulospora*
mycorrhizas
Michigan 8145
plant age 8145
*Acaulospora scrobiculata*
mycorrhizas
Korea Republic 7307
taxonomy 7307
*Agrobacterium tumefaciens*
genetic engineering 3387
plasmids 3387
*Armillaria*
metal ions 4213
USA 4213
*Aspergillus flavus*
environmental factors 8168
Kyushu 8168
soil water 3905
toxins 8168
*Aspergillus terreus*, soil water 3905
bacteria, soil structure 576
beet necrotic yellow vein furovirus, Hungary 7855
biological control agents, survival 1897
*Ceratobasidium oryzae-sativae*, survival 916
*Chrysosporium lignorum*, growth 5035
copper, fungicide residues 2477
*Corticium rolfsii*
control 4211, 5031
Orissa 5476
sclerotia 5476
soil flora 4211
survival 5476
*Cryphonectria cubensis*, isolation 3136
**Soil** *cont.*
dichlofluanid, fungicide residues 7257
diethofencarb, degradation 3312
diseases
biological control 7352
control 7352
Mexico 5916
rotations 5916
*Erwinia carotovora* subsp. *carotovora*, detection 1210
fungi
Bangladesh 119
biological control 5775
control 117, 3385
cultural methods 7355
estimation 8166
Georgia 7355
hyperparasites 1894
Saudi Arabia 1892
soil management 6813
Yugoslavia 117
fungicide residues
analysis 7258
detection 2469
Finland 1824
Italy 6179
Spain 4949
fungicides
adsorption 4947
degradation 8061
mobility 4112
*Fusarium*
biological control 120
interactions 120
Lesotho 5038
Nigeria 5038
soil structure 576
Zimbabwe 5038
*Fusarium equiseti*
Argentina 6675
water stress 6675
*Fusarium oxysporum*
California 739, 5036, 7354
Michigan 8534
mitochondrial DNA 739, 5036
vegetative compatibility groups 739, 5036
*Fusarium oxysporum* f.sp. *cucumerinum*
spore germination 5032
survival 1034
*Fusarium oxysporum* f.sp. *cumini*, control 748
*Fusarium oxysporum* f.sp. *dianthi*, green manures 3184
*Fusarium oxysporum* f.sp. *lini*
Algeria 5033
soil texture 5033
*Fusarium oxysporum* f.sp. *raphani*
fertilizers 6542
population dynamics 6542
spore germination 5032
*Fusarium oxysporum* f.sp. *vasinfectum*, inoculation 5518
*Fusarium solani*, soil amendments 3807
*Fusarium solani* f.sp. *pisi*, spore germination 5032
*Geotrichum citri-aurantii*, Israel 2268
*Gibberella fujikuroi*
antagonists 1419
Michigan 8534
*Gigaspora*
mycorrhizas
Michigan 8145
plant age 8145
*Gliocladium virens*
inoculum 3113
isolation 8169
*Glomus*
mycorrhizas
Michigan 8145
plant age 8145
USA 6486
*Glomus intraradices*, mycorrhizas, fungicides 3345
*Glomus lamellosum*
mycorrhizas
Ontario 726
taxonomy 726
*Heterobasidion annosum*
soil biology 593
survival 593
**Soil** *cont.*
*Macrophomina phaseolina*, control 748
metalaxyl, biodegradation 3857
mycorrhizal fungi
China 3336, 5735
ecology 1839
fungicides 3345
Haryana 4983
isolation 6495
Mexico 4982
New South Wales 6490
phosphorus 3336
seasonal variation 3335
Spain 3335
stress 4991
mycorrhizas
deforestation 4981
disturbed land 5738
France 715
heavy metals 4156
Honshu 7296
infectivity 715, 5738
inoculum 1265
Kentucky 8146
Meghalaya 4981
refuse 5720
seasonal variation 8146
Tamil Nadu 4156
*Mycosphaerella arachidis*, survival 7034
*Mycosphaerella berkeleyi*, survival 7034
*Nectria flammea*, spore germination 5032
pesticide residues 3302
analysis 7201, 7218-7227
estimation 83
pesticides
degradation 3305, 3307, 4109-4110, 8071
environmental impact 1828, 3304
models 8057
movement 5671
models 84
soil biology 88
soil flora 2475
volatilization 5665, 7210, 8053, 8085
*Phanerochaete chrysosporium*, growth 5035
*Phymatotrichopsis omnivora*
sclerotia 6541
soil amendments 6541
*Phytophthora capsici*
population dynamics 1020
soil water 1020
*Phytophthora cinnamomi*, Shanghai 1896
*Phytophthora nicotianae* var. *nicotianae*, control 5031
*Phytophthora nicotianae* var. *parasitica*
California 7682
edaphic factors 7682
Florida 7798
models 7798
phenology 7798
plant pathogens 3388
biological control 232, 5030, 5037, 5776
composts 1893
control 4208, 4215, 4286, 7353
ecology 2545
population dynamics 4214
reviews 2545, 4214
rotations 7353
*Pseudomonas syringae*
environmental factors 8033
genetic engineering 3387
plasmids 3387, 8033
*Puccinia arachidis*, survival 7832
*Puccinia carthami*
environmental factors 3056
survival 3056
*Pyrenochaeta lycopersici*
California 7682
edaphic factors 7682
*Pythium*
Japan 8171
Ningxia 1899
Oklahoma 3071
population dynamics 3071
*Pythium acanthicum*
California 123
isolation 123
*Pythium aphanidermatum*
control 6781

**Soil** *cont.*
*Pythium aphanidermatum cont.*
environmental factors 1303, 6545
plant residues 6781
survival 6545
*Pythium aristosporum*, Honshu 2408
*Pythium cylindrosporum*
Germany 6551
taxonomy 6551
*Pythium irregulare*, environmental factors 1303
*Pythium myriotylum*, control 5031
*Pythium oligandrum*
California 123
detection 3386
fungicides 2546, 3386
isolation 123
rotations 3386
*Pythium periplocum*
California 123
isolation 123
*Pythium spinosum*, environmental factors 1303
*Pythium splendens*
Hawaii 8170
mating types 8170
survival 8170
*Pythium ultimum*, environmental factors 1303
*Rhizoctonia*, survival 1897
*Rhizoctonia solani*
anastomosis groups 1300
biological control 1968
China 1300
control 6781
edaphic factors 5773
inoculation 6575
plant residues 6781
survival 3921, 5773
rhizosphere fungi, Andhra Pradesh 634
*Sclerotinia sclerotiorum*
antagonists 1872
biological control 6236
control 6076
herbicides 1872
sclerotia 7789
yield losses 6236
*Scutellospora armeniaca*
mycorrhizas
Poland 3350
taxonomy 3350
*Thielaviopsis basicola*
control 6273
edaphic factors 2354
*Tilletia indica*, control 1396
*Tilletia tritici*
inoculum 8302
UK 8302
*Trametes versicolar*, growth 5035
*Trichoderma*
Germany 3125
soil amendments 4733
tricyclazole, adsorption 4949
*Ustilago scitaminea*
Louisiana 6256
soil water 6256
survival 6256
*Verticillium dahliae*, estimation 4209
vinclozolin, residues 3313
viruses, models 786

**Soil amendments**
activity
*Cochliobolus sativus*, barley 5900
crops, diseases 7421
*Erwinia carotovora* subsp. *carotovora*, Chinese cabbages 1535
*Fusarium oxysporum* f.sp. *asparagi*, asparagus 8528
*Fusarium oxysporum* f.sp. *raphani*, radishes 2177
*Fusarium solani*
melons 3807
*Phaseolus vulgaris* 8440
soil 3807
*Gibberella fujikuroi*, asparagus 8528
groundnuts, pod rot 7833
*Phaseolus vulgaris*, root rots 8441
*Phymatotrichopsis omnivora* 6541
*Phytophthora nicotianae* var. *parasitica*, oranges 6986

**Soil amendments** *cont.*
activity *cont.*
*Pythium myriotylum*, groundnuts 7834
*Rhizoctonia solani*, rice 7554
*Sclerotium cepivorum* 6540
control
*Phytophthora cinnamomi*, avocados 7011
*Pythium aphanidermatum*, *Phaseolus vulgaris* 6781
*Rhizoctonia solani*, *Phaseolus vulgaris* 6781

**Soil bacteria**
activity
*Gibberella fujikuroi*, maize 1420
mycorrhizas 5728
*Pythium aphanidermatum*, cucumbers 4606
antagonism
*Armillaria ostoyae* 4791
*Fusarium oxysporum* f.sp. *raphani* 5034
*Fusarium solani* 3809
*Gibberella fujikuroi* 1419
*Phytophthora cinnamomi* 5455
plant pathogens 2822
control, *Gaeumannomyces graminis* var. *tritici*, wheat 6665

**Soil-borne wheat mosaic furovirus**
wheat
immunodiagnosis 6637
movement 7449
resistance 7449
soil water 247
temperature 7449
varietal reactions 6637

**Soil fungi**
antagonism, *Fusarium solani* 3809
biological control agents, interactions 1780
cotton
cultural methods 7075
rotations 7075
guavas, population dynamics 1616
interactions, *Fusarium oxysporum* 121
laboratory tests, heat treatment 5774
peas, urea 6790
research, reviews 4212
*Rhizobium*, antagonism 1302
*Trichoderma*, antagonism 1301

**Soil fungistasis**
*Fusarium oxysporum* f.sp. *lini* 1678
*Fusarium roseum* var. *sambucinum* 982
*Fusarium solani* 7976
*Fusarium solani* var. *coeruleum* 982
*Nectria radicicola* 7976
plant pathogens 6328
reviews 6546
*Rhizoctonia solani* 3651, 7976
*Verticillium dahliae* 3727

**Soil solarization**
activity
pesticides, degradation 4078
tobacco mosaic tobamovirus 3102
books 4903
control
*Corticium rolfsii*, soil 5031
crops, diseases 3418-3419, 4210, 4284, 4287-4290
*Didymella lycopersici*, tomatoes 4584
*Fusarium*, *Eucalyptus tereticornis* 7909
*Fusarium oxysporum* f.sp. *cumini*, soil 748
*Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6865
*Macrophomina phaseolina*, soil 748
melons, diseases 4291
*Phytophthora nicotianae* var. *nicotianae*, soil 5031
plant pathogens 4208, 4215, 4286
growing media 122
*Plasmodiophora brassicae*, cauliflowers 2868
potatoes, diseases 4286
*Pythium*, *Eucalyptus tereticornis* 7909
*Pythium aphanidermatum*, *Catharanthus roseus* 4869
*Pythium myriotylum*, soil 5031
*Sclerotium cepivorum*, garlic 4544
soil fungi 117, 747, 6543

**Soil solarization** *cont.*
control *cont.*
*Tilletia indica*, wheat 5149
tomatoes, diseases 4291
*Verticillium dahliae*
almonds 5835
apricots 5835
*Capsicum* 6887
olives 7026
tomatoes 4584

**Soil treatment**
activity
asparagus, diseases 8536
biological control agents 2546
*Gaeumannomyces graminis*, wheat 5160-5161
*Leucaena leucocephala*, mycorrhizas 2522
mycorrhizal fungi, soil 3345
*Phytophthora infestans* 4013
*Thuja plicata*, mycorrhizas 4143
applications
antec FFS 3920
benomyl 3345
carbendazim 2816
carboxin 7153
chloropicrin 2868, 5507, 5576, 5578
dazomet 1396, 2868, 5578
1,3-dichloropropene 5507
flutolanil 2816
formaldehyde 2399, 3920
fosetyl 5576
furalaxyl 3345
mepronil 3345
metalaxyl 5576
2-methoxyethylmercury chloride 7153
methyl bromide 1396, 2868, 5576, 5578
methyl isothiocyanate 5576, 5578
nalfloc NAL 1115 3920
panacide M 3920
panolil 7153
pencycuron 2816
thiophanate-methyl 2816
thiram 2522, 3345
tolclofos-methyl 2816
triadimenol 7153
vinclozolin 2859
control
*Abies pindrow*, damping off 2399
*Corticium rolfsii*, *Piper betle* 7153
*Fusarium oxysporum*, spinach 5320
*Phytophthora nicotianae* var. *parasitica*, *Gypsophila paniculata* 5576
*Plasmodiophora brassicae*, cauliflowers 2868
*Polymyxa betae*, sugarbeet 3920
*Rhizoctonia solani*
*Delphinium* 5578
*Vigna radiata* 2816
*Sclerotinia sclerotiorum*, onions 6076
*Sclerotium cepivorum*, garlic 2859
strawberries, replant disease 7765
*Thielaviopsis basicola*, tobacco 5507, 6273
*Tilletia indica*, wheat 1396
*Verticillium dahliae*, strawberries 7765
nontarget effects, reviews 6455

**Soil water,** activity, *Phaseolus vulgaris*, root rots 6784

**Solanaceae**
*Alternaria alternata*
isoenzymes 1884
isolates 1884
*Alternaria solani*
isoenzymes 1884
isolates 1884
*Glomus intraradices*, mycorrhizas, lifespan 1267
*Pseudomonas solanacearum*, control 6411
viruses, taxonomy 177

***Solanum***
*Clavibacter michiganensis* subsp. *sepedonicus*, genetic resources 2851
*Phytophthora infestans*
Mexico 2156-2157
races 2156
resistance 2157

***Solanum*** *cont.*
*Pseudomonas solanacearum*, selection 3780
*Synchytrium endobioticum*
Central America 980
pathotypes 980
resistance 980
South America 980
*Verticillium dahliae*
screening 2161
toxins 2161
***Solanum brevidens***
potato X potexvirus, resistance 8473
potato Y potyvirus
mixed infections 2152
resistance 8473
***Solanum carolinense***
*Erysiphe cichoracearum*, Georgia 4027
*Rhizoctonia solani*, Georgia 4027
**Solanum dulcamara yellow fleck-Ob virus,** characteristics 5811
***Solanum gilo*,** seedborne fungi, Brazil 2881
***Solanum laciniatum*,** *Phytophthora infestans*, culture media 8638
***Solanum melongena*** (*see* Aubergines)
***Solanum nigrum***
*Alternaria alternata*, toxins 7999
*Phytophthora infestans*
pathogenicity 7681
Taiwan 7681
potato Y potyvirus, reservoir hosts 4024
***Solanum stoloniferum***
henbane mosaic potyvirus, varietal reactions 6033
potato Y potyvirus, varietal reactions 6033
***Solanum torvum*,** *Verticillium dahliae*, breeding 5295
***Solanum tuberosum*** (*see* Potatoes)
***Soleella pinicola***
*Pinus armandi*
taxonomy 6314
Yunnan 6314
***Solidaster luteus*,** *Corticium rolfsii*, Honshu 5577
**Solomon Islands,** cocoa, diseases 552
**Somalia,** trees, mycorrhizas 1842
**Sonchus yellow net nucleorhabdovirus,** tobacco, replication 1667
***Sonneratia***
*Polystigma sonneratiae*
Queensland 589
taxonomy 589
***Sonneratia apetala*,** *Alternaria alternata*, West Bengal 8843
***Sorbus aucuparia***
Basidiomycotina, pathogenicity 1148
viruses, Germany 4817
***Sordaria***
control
*Pythium aphanidermatum*, crops 6544
*Rosellinia necatrix*, crops 6544
**Sorghum** (*Sorghum bicolor*)
*Aspergillus flavus*
aflatoxins 7516
varietal reactions 7516
*Aspergillus parasiticus*
lipids 4271
seeds 4271
toxins 4271
bacteria, Venezuela 2722
*Bipolaris sorghicola*, genetics 1433
*Cercospora sorghi*, genetics 1428
*Claviceps africana*
environmental factors 307
South Africa 892
spread 5932
varietal reactions 892
Zimbabwe 5932
*Claviceps sorghi*
antagonists 893
environmental factors 893
Tamil Nadu 893
varietal reactions 1434, 1438
*Cochliobolus carbonum*
phytoalexins 891
pigments 891
*Cochliobolus lunatus*
genetics 7512, 8355
seeds 7512

**Sorghum** *cont.*
*Colletotrichum*
isolates 824
molecular genetics 824
*Colletotrichum graminicola*
air pollution 3610
antagonists 6707
breeding 8357
conidia 6635
control 6635
culture media 6706
genetics 1428
host parasite relationships 3613, 3622, 6633
infection 3613
isolates 309
Minas Gerais 1436
molecular genetics 309
phytoalexins 891, 3622, 8357
pigments 891
reviews 895, 6633
spore germination 6706
varietal reactions 1434, 1436
diseases
assessment 305
genetic resources 8244
India 3624
phytoalexins 6708
seeds 3624
Tanzania 4404
varietal reactions 1441, 3609, 3624
*Erwinia chrysanthemi*
symptoms 5933
Uttar Pradesh 5933
*Fusarium*
Lesotho 5038
Nigeria 5038
seeds 3505
Southern Africa 3505
Zimbabwe 5038
*Fusarium equiseti*
seeds 3505
Southern Africa 3505
*Gibberella fujikuroi*
genetics 7512, 8355
pathogenicity 308
resistance 5930
seeds 7512
strains 308
varietal reactions 1442, 3618
*Glomerella*
isolates 824
molecular genetics 824
*Glomus*, mycorrhizas, USA 6486
*Gonatobotrys ramosa*, culture media 5931
leaf spot, Egypt 6627
*Macrophomina phaseolina*
biochemistry 306
breeding 4402
carbohydrates 1431
defoliation 8356
environmental factors 5198
genetics 3615, 4403
histopathology 7513
India 5198
Mexico 1435, 1439
phenolic compounds 1431
resistance 306
varietal reactions 1430-1431, 1435, 1437, 1439, 3616, 5198
maize dwarf mosaic potyvirus
breeding 5928
Hungary 3606
inoculation 2718
interactions 2719
strains 3606
transmission 5928
varietal reactions 4297
Yugoslavia 5928
maize mosaic nucleorhabdovirus, biochemistry 5929
*Monosporascus cannonballus*, pathogenicity 8602
mycorrhizas
edaphic factors 716
estimation 2513
fertilizers 716
Nebraska 716
rotations 716

**Sorghum** *cont.*
*Periconia circinata*
host parasite relationships 3622
phytoalexins 3622
toxins 3621
*Peronosclerospora sorghi*
biochemistry 306
Colombia 2721
genetics 2069
Honduras 3620
host parasite relationships 1444
India 3608
isolation 313
Kerala 311, 313
pathotypes 3607
resistance 306, 310
screening 310, 1443, 2720
spores 313
varietal reactions 1432, 1434, 1438, 3608, 3620, 3623, 7517
yield losses 3623
Zimbabwe 1444, 2720, 3608
*Phoma sorghina*
Rajasthan 1447
seeds 1447, 3611
varietal reactions 3611
*Pseudomonas fuscovaginae*, reviews 2630
*Puccinia purpurea*
biochemistry 306
breeding 3614
Mexico 3614
Minas Gerais 1436
resistance 306
varietal reactions 1436, 1445
*Ramulispora sorghi*, varietal reactions 1434
*Ramulispora sorghicola*
enzymes 1429
varietal reactions 1429
seedborne fungi
control 5197, 8358
Maharashtra 894
susceptibility 314
varietal reactions 314, 7511
*Setosphaeria turcica*
plant extracts 7515
Tamil Nadu 1440
varietal reactions 1434, 1440
sorghum yellow banding virus
interactions 2719
varietal reactions 1427, 2717
*Sphacelotheca reiliana*
breeding 3617
host parasite relationships 7510
molecular genetics 3612
resistance 3612
varietal reactions 3619
*Sphacelotheca sorghi*, breeding 1446
*Sporisorium reilianum*, host parasite relationships 3625
sugarcane mosaic potyvirus
Hungary 3606
strains 3606
varietal reactions 4297
*Tolyposporium ehrenbergii*
air spora 312
India 312
transmission 312
viruses, taxonomy 167
***Sorghum bicolor*** (*see* Sorghum)
***Sorghum halepense***
barley yellow dwarf luteovirus, Arkansas 5133
*Bipolaris sorghicola*, biological control 5621
maize chlorotic dwarf ribotungrovirus, transmission 2707
maize dwarf mosaic potyvirus, epidemiology 7496
*Peronosclerospora sorghi*, Colombia 2759
**Sorghum mosaic potyvirus**
maize, cytology 296
taxonomy 188
***Sorghum plumosum*,** *Massariothea triseptata*, taxonomy 5047
**Sorghum stunt mosaic nucleorhabdovirus**
maize
characteristics 2710
transmission 2710
***Sorghum sudanense*,** leaf spot, Egypt 6627

***Sorghum vulgare*** (*see* Sorghum)
**Sorghum yellow banding virus**
sorghum
interactions 2719
varietal reactions 1427, 2717
**Sour cherries** (*see* Cherries)
**Sour oranges** (*Citrus aurantium*)
fungicides
mobility 1800
persistence 4674
*Glomus*
mycorrhizas
Florida 4160
inoculum 4160
*Glomus intraradices*, mycorrhizas, carbon 2516
*Phytophthora citrophthora*
seasonal variation 8652
sporulation 1603
temperature 1603
*Phytophthora nicotianae* var. *parasitica*
seasonal variation 8652
sporulation 1603
temperature 1603
**South Africa**
*Acacia saligna*, *Uromycladium tepperianum* 7993
apples
mycorrhizas 7302
scald 6927
asparagus, *Stemphylium vesicarium* 7669
avocados
*Phomopsis perseae* 2282
*Phytophthora cinnamomi* 2276-2277, 2283
*Pseudocercospora purpurea* 2281
citrus
blight 6202
greening 5444
*Cussonia thyrsiflora*, *Mycosphaerella cussonia* 7359
*Eucalyptus*
*Cylindrocladiella* 4792
*Cylindrocladium* 4792
*Endothia gyrosa* 8771
fungi 8760
*Harknessia eucalyptorum* 4225
*Harknessia fusiformis* 4225
*Wuestneia eucalyptorum* 4225
*Eucalyptus grandis*
*Ceuthospora lauri* 1151
*Pilidium acerinum* 1151
forest trees
*Cylindrocladiella* 1147
*Cylindrocladium* 1147
forests
*Cylindrocladiella* 4792
*Cylindrocladium* 4792
grapefruits, citrus tristeza closterovirus 3012
grapes, *Agrobacterium tumefaciens* 4653
*Gypsophila paniculata*, *Phytophthora nicotianae* 7973
*Lolium multiflorum*, ryegrass mosaic rymovirus 4445
lucerne, *Pythium* 7578
maize
*Gibberella fujikuroi* 5915
maize streak monogeminivirus 299, 4381
*Stenocarpella maydis* 5915
mangoes
diseases 7801
*Dothiorella dominicana* 508
Myrtaceae, *Cryphonectria cubensis* 1085
*Ocotea bullata*, *Phytophthora cinnamomi* 1702
oranges, citrus psorosis complex 1601
pastures, viruses 4446
*Pinus*, fungi 8760
plums, mycorrhizas 7302
potatoes
*Fusarium oxysporum* f.sp. *tuberosi* 403
*Sclerotinia sclerotiorum* 7649
*Protea*, *Ophiostoma capense* 7131
*Protea repens*, *Mycosphaerella bellula* 7359
*Pythium*, reviews 1353
*Rhododendron*
*Cylindrocladium scoparium* 1723
**South Africa** *cont.*
*Rhododendron cont.*
*Pythium prolatum* 1723
sorghum, *Claviceps africana* 892
soyabeans
peanut mottle potyvirus 7590
soybean mosaic potyvirus 2778
sugarcane, *Clavibacter xyli* subsp. *xyli* 533
*Syzygium cordatum*, *Harknessia syzygii* 4225
tobacco, *Pseudomonas solanacearum* 7889
weeds, biological control 7993
wheat
*Fusarium* 280, 1404
*Gibberella avenacea* 1404
*Gibberella zeae* 1404
maize streak monogeminivirus 1987
*Rhizoctonia solani* 7480
**South America**
cocoa, *Moniliophthora roreri* 559
geminiviruses, evolution 1940
*Hevea brasiliensis*, diseases 2366
*Solanum*, *Synchytrium endobioticum* 980
sugarcane, diseases 3074
**South East Asia**
cocoa, diseases 1125
pesticides, regulation 678
rice, rice tungro virus 8365
*Stylosanthes*, *Glomerella cingulata* 6759
**South Korea** (*see* Korea Republic)
**Southern Africa**
groundnuts, diseases 5470
*Penicillium*, reviews 126
plant protection 3465
**Southern bean mosaic sobemovirus**
cowpeas
developing countries 382
seeds 382
immunodiagnosis 1336
*Phaseolus vulgaris*
drought 6782
Mexico 6775, 6782
yield losses 6775
transmission 169
**Southern peas** (*see Vigna unguiculata*)
**Sowbane mosaic sobemovirus**
*Chenopodium amaranticolor*, transmission 1942
*Chenopodium quinoa*, transmission 1942
**Soyabeans** (*Glycine max*)
*Acaulospora*, mycorrhizas, Iowa 1863
*Alternaria alternata*
freezing 358
Iowa 358
seeds 358
*Alternaria tenuissima*
Karnataka 2784
yield losses 2784
*Aspergillus flavus*
control 5119
seeds 7596, 7598
storage 5119
*Aspergillus nidulans*, seeds 7598
*Aspergillus niger*, seeds 7596, 7598
*Aspergillus ochraceus*
control 5119
storage 5119
*Bacillus megaterium*
population dynamics 2107
rhizosphere 2107
bacteria
control 1962
tissue culture 1962
bean pod mottle comovirus, mixed infections 2102
*Calonectria crotalariae*, Jiangsu 364
*Cercospora kikuchii*
biology 5241
Cuba 5241
DNA 1484
environmental factors 3678, 8428
liming 6772
potassium 6772
São Paulo 6772
spore germination 3678
toxins 1484, 8428
*Cercospora sojina*
assessment 5994
biochemistry 7591
**Soyabeans** *cont.*
*Cercospora sojina cont.*
control 5995
resistance 3676
varietal reactions 7591
yield losses 5995
*Colletotrichum dematium*
Himachal Pradesh 4466
varietal reactions 4466
*Colletotrichum truncatum*
control 6768
fertilizers 6768
*Corticium rolfsii*
control 357, 5841
Japan 357
*Corynespora cassiicola*
Korea Republic 5252
varietal reactions 5252
cowpea chlorotic mottle bromovirus, genetics 353
cowpea mosaic comovirus, mixed infections 2102
cowpea severe mosaic comovirus, characteristics 2780
*Cylindrocladium scoparium*, Colombia 5998
*Diaporthe phaseolorum* var. *caulivora*
epidemiology 2106
genetics 5992
irrigation 2106
mixed infections 3677
perithecia 7599
survival 7599
varietal reactions 2106
yield losses 3677
*Diaporthe phaseolorum* var. *sojae*
culture techniques 1486
physiology 7594
diseases
breeding 2101
control 6765
induced mutations 8427
Mexico 6765
Russia 2108
seeds 6765
varietal reactions 2108
Venezuela 5999
*Fusarium*
biological control 1482
Brazil 1482
plant residues 1482
*Fusarium equiseti*, Shandong 3679
*Fusarium oxysporum*
selection 8246
Shandong 3679
varietal reactions 6000
*Fusarium solani*
control 6767
fertilizers 6767
Hungary 5996
Illinois 4465
Missouri 7592
Nematoda 7592
Shandong 3679
testing 4465, 5991
varietal reactions 5991, 6000
*Gibberella zeae*
biological control 1482
Brazil 1482
freezing 358
Iowa 358
plant residues 1482
seeds 358
*Gigaspora*, mycorrhizas, Iowa 1863
*Glomerella glycines*
biological control 1482
Brazil 1482
plant residues 1482
*Glomus*
mycorrhizas
edaphic factors 1272
growth 96
Iowa 1863
Minnesota 1272
nitrogen fixation 96
USA 6486
*Glomus mosseae*
mycorrhizas
soil structure 8138
stomata 3351
water stress 3351

**Soyabeans** *cont.*
*Glomus versiforme*
mycorrhizas
intercropping 1853
nutrients 1853
*Macrophomina phaseolina*
biological control 1482
Brazil 1482
Hungary 7417
Myanmar 2141
physiology 2785
plant residues 1482
sclerotia 2785
variation 2141
varietal reactions 7417
manganese, toxicity, Florida 4278
*Microsphaera diffusa*, genetics 361
mung bean yellow mosaic bigeminivirus, varietal reactions 2782
mycorrhizas
edaphic factors 716
fertilizers 716
Honshu 7296
Nebraska 716
rotations 716
*Myrothecium roridum*
fertilizers 7597
induced resistance 6770-6771
phytoalexins 6770
peanut mottle potyvirus
characteristics 7590
South Africa 7590
*Penicillium oxalicum*, seeds 7598
*Peronospora manshurica*
cultural methods 6766
genetics 5250
Heilongjiang 5251
races 5251
pesticides, toxicity 7214
*Phakopsora meibomiae*, taxonomy 362
*Phakopsora pachyrhizi*
breeding 4467
epidemiology 4467
genetics 5249
models 4468
races 4467
Taiwan 4467
taxonomy 362
yield losses 4468
*Phoma medicaginis* var. *sojae*, seed testing 5997
*Phomopsis*
epidemiology 5993
seeds 5993
*Phomopsis longicolla*
breeding 5248
freezing 358
immunodiagnosis 2783
Iowa 358
latent infections 2783
seeds 358, 5248
*Phomopsis phaseoli*
immunodiagnosis 2783
latent infections 2783
phytoalexins
elicitors 653
isolation 2110
nitrogen fixation 6773
*Phytophthora megasperma* f.sp. *glycinea*
adhesion 4469
fungicide tolerance 359
genetics 360, 1481, 2104, 3675, 5247
host parasite relationships 4469
varietal reactions 1480
*Phytophthora sojae*
host parasite relationships 5253
races 7593
plant extracts
antifungal agents 7548
antifungal properties 2109
plant oils, antifungal agents 4611
*Pseudomonas syringae* pv. *glycinea*
isolates 8430
mixed infections 3677
races 3680
reviews 6001
toxins 8430
yield losses 3677
Yugoslavia 3680
*Pyrenochaeta glycines*
Nigeria 6769

**Soyabeans** *cont.*
*Pyrenochaeta glycines cont.*
varietal reactions 6769
*Pythium aphanidermatum*, epidemiology 5254
*Pythium ultimum*
biological control 938
ethanol 938
seeds 938
*Rhizoctonia*
Jiangsu 8248
pathogenicity 8248
*Rhizoctonia solani*
anastomosis groups 5989
Ohio 5989
testing 5240
varietal reactions 5240
virulence 5989
Zaire 5989
*Sclerotinia sclerotiorum*, biological control 226, 2608
*Scutellospora*, mycorrhizas, Iowa 1863
seedborne fungi
control 2105, 7595
Madhya Pradesh 1485
seed testing 7595
storage 2105
toxins 365
Uttar Pradesh 7595-7596
varietal reactions 1485
seedborne organisms
control 7587
Cuba 7586
seed quality 1483
*Septoria glycines*
Russia 356
toxins 8429
varietal reactions 356
soybean dwarf luteovirus
control 352
Hokkaido 6762
Honshu 6763
transmission 6761
transplanting 6763
vectors 352
soybean mosaic potyvirus
China 8426
genetics 940, 6760
growth stages 941
Heilongjiang 354
host parasite relationships 5245
immunodiagnosis 2779
isoenzymes 5242
isolates 2781
Jiangsu 355
mixed infections 2102
models 8426
molecular genetics 5245
physiology 8424
resistance 5242
São Paulo 8425
screening 5243
South Africa 2778
strains 2778, 5245
temperature 941
varietal reactions 941, 4464, 5244, 5990, 7589, 8425
vectors 354-355
soybean yellow mosaic virus
biochemistry 5246
control 2777, 6764
Delhi 2777
Indian Punjab 5246
varietal reactions 5246, 7588
vectors 2777
tobacco necrosis necrovirus
ethylene 942
hypersensitivity 942
temperature 942
viruses, reviews 2100
*Xanthomonas campestris*
Japan 939
strains 939
Thailand 939
*Xanthomonas campestris* pv. *glycines*
genetics 7600
isoenzymes 7600
varietal reactions 7601
**Soybean dwarf luteovirus**
grain legumes, New Zealand 8423

**Soybean dwarf luteovirus** *cont.*
*Phaseolus vulgaris*
Hokkaido 6776
mulching 6776
soyabeans
control 352
Hokkaido 6762
Honshu 6763
transmission 6761
transplanting 6763
vectors 352
*Trifolium repens*
detection 6756
Hokkaido 6757
strains 6757
*Trifolium subterraneum*, Australia 2095
**Soybean mosaic potyvirus**
host range 8226
Leguminosae, Taiwan 2776
molecular genetics, nucleotide sequences 7414
overwintering 8226
*Phaseolus vulgaris*, genetics 6006
serology 6590
soyabeans
China 8426
genetics 940, 6760
growth stages 941
Heilongjiang 354
host parasite relationships 5245
immunodiagnosis 2779
isoenzymes 5242
isolates 2781
Jiangsu 355
mixed infections 2102
models 8426
molecular genetics 5245
physiology 8424
resistance 2101, 5242
São Paulo 8425
screening 5243
South Africa 2778
strains 2778, 5245
temperature 941
varietal reactions 941, 4464, 5244, 5990, 7589, 8425
vectors 354-355
**Soybean yellow mosaic virus**
soyabeans
biochemistry 5246
control 2777, 6764
Delhi 2777
Indian Punjab 5246
varietal reactions 5246, 7588
vectors 2777
**Spain**
*Agrobacterium tumefaciens*, plasmids 6395
air spora 3358
apples, storage decay 2932
apricots, plum pox potyvirus 2234
asparagus, *Fusarium* 1007
barley
barley yellow dwarf luteovirus 4354
*Erysiphe graminis* 2037, 4361
*Botryosphaeria stevensii* 2553
*Capsicum*
diseases 4270
pepper mild mottle tobamovirus 6117, 8539
tomato mosaic tobamovirus 6117, 8539
*Carduus pycnocephalus*, diseases 2421
cereals, diseases 235
cherries, *Gnomonia erythrostoma* 7751
chickpeas
bean leaf roll luteovirus 4490
beet western yellows luteovirus 4490
cucumber mosaic cucumovirus 4490
citrus
citrus ringspot virus 6204
citrus tristeza closterovirus 4664
Cucurbitaceae, *Sphaerotheca fuliginea* 4600
Erysiphaceae, biogeography 2551
Erysiphales 2549, 6548
*Eucalyptus*, mycorrhizas 2501
*Ficus elastica*, tomato spotted wilt tospovirus 7126
*Ficus pumila*, tomato spotted wilt tospovirus 7126

**Spain** *cont.*
garlic, *Sclerotium cepivorum* 4544
*Hedysarum*, mycorrhizas 1851
*Hordeum murinum*, *Erysiphe graminis* 2037
horticultural crops, cucumber mosaic cucumovirus 2618
*Leveillula*, biogeography 2551
melons
*Acremonium* 5366, 7711, 7721
beet pseudo-yellows virus 7707
*Fusarium oxysporum* f.sp. *melonis* 8592
*Monosporascus* 7722
*Sphaerotheca fuliginea* 8591
yellowing 8587
peaches
*Monilinia laxa* 7759
*Sphaerotheca pannosa* var. *persicae* 7756
pears
*Pseudomonas syringae* 2967
*Stemphylium vesicarium* 2966
storage decay 2932
*Phaseolus vulgaris*
bean common mosaic potyvirus 2790
bean yellow mosaic potyvirus 2790, 6007
cucumber mosaic cucumovirus 2790
diseases 4270
*Phoma* 2554
*Pinus*, mycorrhizas 2501
*Pinus radiata*, diseases 596
plant diseases, legislation 2487
*Quercus*
*Diplodia* 7913
mycorrhizas 2501
*Quercus ilex*, *Phytophthora cinnamomi* 3969
*Quercus suber*, *Phytophthora cinnamomi* 3969
sand
fungi 2547
*Fusarium* 2547
soil
fungicide residues 4949
mycorrhizal fungi 3335
*Thymus*, fungi 5609
tomatoes
pepper mild mottle tobamovirus 8539
tomato mosaic tobamovirus 8539
*Ulmus*, *Ceratocystis ulmi* 7102
Uredinales 6548
biogeography 2551
Ustilaginales 6548
biogeography 2551
watermelons, ozone 5380
weeds, cucumber mosaic cucumovirus 2618
***Sparassis crispa*,** production, antibiotics 4113
***Spathiphyllum***
*Cylindrocladium spathiphylli*
Florida 1740
Hawaii 1740
morphology 1740
**Spermidine**
control
*Botrytis cinerea*, crops 3484
*Sclerotinia sclerotiorum*, crops 3484
***Sphaceloma*,** figs, Honshu 7793
***Sphaceloma perseae*,** avocados, New Zealand 512
***Sphaceloma populi***
*Populus*
Himachal Pradesh 7919
Uttar Pradesh 4809
***Sphacelotheca destruens***
*Panicum miliaceum*
induced mutations 8361
varietal reactions 8362
***Sphacelotheca fagopyri*,** *Fagopyrum cymosum*, Tamil Nadu 8852
***Sphacelotheca reiliana***
maize
France 3593
Sikkim 4389
sorghum
breeding 3617
host parasite relationships 7510
molecular genetics 3612
***Sphacelotheca reiliana*** *cont.*
sorghum *cont.*
resistance 3612
varietal reactions 3619
***Sphacelotheca sorghi*,** sorghum, breeding 1446
***Sphaerellopsis filum*,** hyperparasitism, *Uromyces* 2774
***Sphaeronaemella helvellae*,** sexual reproduction 3366
**Sphaeropsidales**, Himachal Pradesh 5778
***Sphaerostilbe repens*,** tropical crops, characteristics 1305
***Sphaerotheca cayratiae***
*Cayratia corniculata*
taxonomy 6561
Zhejiang 6561
***Sphaerotheca fuliginea***
biochemistry, sterols 8151
cucumbers
chlorophyll 8596
control 4604, 6900
epidemiology 2919
genetics 5370
host parasite relationships 2915, 8596
Italy 2919
Netherlands 5370
plant extracts 7432
silicon 2915, 2925
susceptibility 4601
Cucurbitaceae
control 4601
ecology 4601
Spain 4600
Taiwan 4601
haustoria, isolation 1291
horticultural crops, Denmark 5839
*Lagenaria siceraria*, fungicide tolerance 4601
*Luffa aegyptiaca*, fungicide tolerance 4601
marrows
epidemiology 2919
Italy 2919
screening 8601
melons
epidemiology 2919
genetics 6133, 8591
Italy 2919
Spain 8591
susceptibility 4601
testing 5365, 6891
pumpkins
breeding 7714
cleistothecia 7717
fungicide tolerance 5373
Indiana 7717
Michigan 5373
susceptibility 4601
squashes
cleistothecia 6894
Mexico 6894
***Sphaerotheca koreana***
*Corydalis ochotensis*
Korea Republic 6553
taxonomy 6553
***Sphaerotheca macularis***
hops, control 8832
strawberries
control 7775
fungicide tolerance 2245
***Sphaerotheca mors-uvae***
black currants
breeding 4635, 8627
control 5390
France 6168
***Sphaerotheca pannosa***
apricots
epidemiology 2238
Italy 2238
peaches
biological control 7757
control 4629
Italy 7758
Korea Republic 4629
overwintering 7758
roses
breeding 8807
plant extracts 692
rain 4281
***Sphaerotheca pannosa* var. *persicae***
peaches
control 6164, 6945
epidemiology 1061
France 1061, 7756
Mexico 6164, 6945
Spain 7756
susceptibility 7756
***Sphaerotheca tumefaciens*,** citrus, Cuba 4668
***Sphaerulina mimosae-pigrae***
*Mimosa pigra*
biological control 2430
taxonomy 2430
***Sphagnum balticum*,** plant extracts, antifungal agents 692
**Spinach** (*Spinacia oleracea*)
*Albugo occidentalis*, estimation 2872
chlorosis, estimation 2872
*Colletotrichum dematium*
California 5317
Ontario 8518
USA 8518
vegetative compatibility groups 8518
virulence 8518
diseases, biological control 6544
*Fusarium oxysporum*, control 5320
*Peronospora farinosa*, varietal reactions 5319
*Phomopsis amygdali*
fusicoccin 5318
membranes 5318
*Pythium*, inoculum 7389
**Spinach beets** (*Beta vulgaris*)
beet cryptic III alphacryptovirus, characteristics 6086
*Pleospora betae*
Argentina 4540
seeds 4540
***Spinacia oleracea*** (*see* Spinach)
***Spiranthes sinensis* var. *amoena*,** *Rhizoctonia solani*, mycorrhizas 6501
***Spiroplasma***
maize
Costa Rica 1977
intercropping 1977
vectors 1977
reviews 3459
***Spiroplasma citri***
*Crepis echiodes*
Turkey 5111
vectors 5111
*Echium*
Turkey 5111
vectors 5111
molecular genetics, nucleotide sequences 5110, 5112
oranges, Iran 6982
sesame
Turkey 5111
vectors 5111
***Spiroplasma kunkelii*,** maize, Argentina 2708
***Spissistilus festinus*,** interactions, *Fusarium oxysporum*, lucerne 5234
**Spoil heap soils**, mycorrhizas, colonization 1857
***Spongospora subterranea***
potatoes
Chile 2831
distribution 2830
epidemiology 2830
immunodiagnosis 4527
karyotypes 5297
Turkey 406
ultrastructure 5297
varietal reactions 406
Washington 2830
zinc 6058
**Spore dispersal**
*Alternaria* 4196
*Botrytis cinerea* 6327
*Cladosporium* 1384
*Colletotrichum acutatum* 2244
*Colletotrichum gloeosporioides* f.sp. *aeschynomene* 2425
*Crinipellis perniciosa* 4743-4744
*Erysiphe graminis* 1384
models 2244
*Physalospora piricola* 6933
*Pleospora tarda* 4196

**Spore dispersal** *cont.*
*Puccinia graminis* 1384, 1391
*Puccinia recondita* 1384
*Sclerotinia sclerotiorum* 8676
*Uromyces appendiculatus* 2123
*Venturia inaequalis* 6144
*Venturia pirina* 5395
**Spore germination**
*Acaulospora* 727, 7305
*Acaulospora laevis* 7305
*Acaulospora trappei* 7305
*Alternaria alternata* 6512
*Alternaria brassicicola* 998
*Cercospora kikuchii* 3678
*Cochliobolus hawaiiensis* 2679
*Colletotrichum graminicola* 6635, 6706
*Coniothyrium sporulosum* 2404
*Cronartium fusiforme* 4180
*Cymadothea trifollii* 4459
*Entrophospora colombiana* 727
*Fusarium oxysporum* f.sp. *cucumerinum* 5032
*Fusarium oxysporum* f.sp. *raphani* 5032
*Fusarium roseum* 6512
*Fusarium solani* f.sp. *pisi* 5032
*Fusarium udum* 963
*Gloeosporium psidii* 6512
*Glomerella cingulata* 6512
*Glomus mosseae* 2512
*Leptotrochila medicaginis* 2764
*Nectria radicicola* 5015
*Pestalotia mangiferae* 6512
*Pestalotiopsis psidii* 6512
*Phakopsora ziziphi-vulgaris* 7804
*Phytophthora cactorum* 3362
*Plasmopara viticola* 4647
*Podosphaera leucotricha* 5389
powdery mildews 1875, 6520
*Puccinia* 729
*Puccinia grindeliae* 4895
*Pythium aphanidermatum* 1876
*Pythium ultimum* 7316
*Rhizopogon luteolus* 6473
*Rhizopogon rubescens* 4134
*Scutellospora gregaria* 4999
*Suillus tomentosus* 4134
*Terfezia arenaria* 6503
*Tilletia barclayana* 264
*Tilletia indica* 264
*Tranzschelia discolor* 1282
*Tricholoma robustum* 4969
*Uromyces viciae-fabae* 5009-5010
*Ustilago* 2539
***Sporendonema purpurascens*,** mushrooms, identification 1185
***Sporidesmium anglicum*,** India 3402
***Sporidesmium longissima*,** Himachal Pradesh 7356
***Sporidesmium sclerotivorum*,** antagonism, *Sclerotinia sclerotiorum* 1872
***Sporisorium reilianum***
physiology, enzymes 7514
sorghum, host parasite relationships 3625
***Sporobolus poiretii***
*Balansia epichloë*
histology 5983
mating types 5983
***Sporosarcina*,** antagonism, fungi 8147
***Sporoschisma saccardoi*,** Himachal Pradesh 7356
**Spraying equipment** 68, 498, 1508, 2460, 2639, 2942, 2982, 3270, 3282-3283, 4094, 4111, 4581, 4946, 5676, 5682-5683, 6437, 6643, 6820, 6917, 7228, 7234, 8038, 8048, 8065, 8241
**Spruce** (*see Picea*)
**Squash leaf curl geminivirus**
marrows
coat proteins 1030
detection 1030
molecular genetics, replication 799
**Squash mosaic comovirus**
marrows
coat proteins 1030
detection 1030
squashes, enzymes 1967
**Squashes** (*see also Cucurbita* spp.)
cucumber mosaic cucumovirus
control 3787
enzymes 1967
fertilizers 3787
**Squashes** *cont.*
cucumber mosaic cucumovirus *cont.*
varietal reactions 3787
*Erysiphe cichoracearum*, enzymes 1967
*Phytophthora capsici*, Chile 2214
*Pythium*, cultural methods 1360
radish mosaic comovirus, enzymes 1967
*Rhizoctonia solani*, cultural methods 1360
*Sphaerotheca fuliginea*
cleistothecia 6894
Mexico 6894
squash mosaic comovirus, enzymes 1967
*Trichothecium roseum*, West Bengal 755
*Xanthomonas campestris* pv. *cucurbitae*, Argentina 1038
zucchini yellow mosaic potyvirus, Turkey 4597
**Sri Lanka**
*Hevea brasiliensis*
diseases 578
*Thanatephorus cucumeris* 6284
onions, *Alternaria porri* 4541
passion fruits, Sri Lankan passion fruit mottle virus 511
sesame, *Phytophthora nicotianae* var. *parasitica* 7036
**Sri Lankan passion fruit mottle virus**
passion fruits
characteristics 511
Sri Lanka 511
***Stachybotrys atra*,** scanning electron microscopy 7336
***Stachys sieboldii*,** viruses, control 8503
***Stachytarpheta indica*,** cucumber mosaic cucumovirus, Kerala 7989
***Stagonospora*, *Hevea brasiliensis*,** seeds 2369
***Stagonospora apocyni***
*Apocynum cannabinum*
biological control 635
toxins 635
***Stagonospora arenaria***
*Dactylis glomerata*
breeding 2757
genetics 2757
***Stagonospora maackieae*, *Maackia amurensis*,** Korea Republic 8759
***Stagonospora meliloti***
*Trifolium repens*
assessment 7582
epidemiology 4457
North Carolina 2096, 7582
***Stagonospora pteridiicola***
*Pteridium aquilinum*
taxonomy 7163
UK 7163
**Stain fungi**
immunodiagnosis 1690
*Pinus contorta*
British Columbia 2392
glyphosphate 2392
**Steam,** control, pawpaws, storage decay 3037
***Stemphylium***
cotton, toxins 3954
linseed, seeds 6237
maize, Germany 880
tomatoes
control 6872
Mexico 6872
***Stemphylium macrosporioideum***
cotton
Azerbaijan 2362
Kazakhstan 2362
Ukraine 2362
Uzbekistan 2362
***Stemphylium sarciniforme*,** chickpeas, control 378
***Stemphylium solani*,** tomatoes, varietal reactions 2898
***Stemphylium vesicarium***
asparagus, South Africa 7669
lucerne, pathogenicity 2763
pears
control 2966
environmental factors 2966
models 2966
Spain 2966
***Stenella*,** taxonomy 5042
***Stenella alocasiae***
*Alocasia indica*
taxonomy 750
West Bengal 750
***Stenella colocasiae***
*Colocasia antiquorum*
taxonomy 750
West Bengal 750
***Stenella naucleae***
*Nauclea excelsa*
taxonomy 758
West Bengal 758
***Stenella plumeriae***
*Plumeria rubra*
taxonomy 750
West Bengal 750
***Stenocarpella macrospora*,** culture media, pycnidiospores 5923
***Stenocarpella maydis***
culture media, pycnidiospores 5923
maize
Honduras 301
insects 5915
South Africa 5915
***Stenotaphrum secundatum***
diseases
mowing 1729
mulching 1729
*Gaeumannomyces graminis*, detection 4283
*Gaeumannomyces graminis* var. *graminis*
Alabama 4860
California 6751
Florida 4860
identification 5982
*Magnaporthe grisea*, control 1726
*Rhizoctonia solani*
control 1727
isolates 4197
***Stephanitis typica*,** transmission, coconuts, root (wilt) 1097
**Stephanosporales,** taxonomy, identification 4221
***Steremnius carinatus*,** transmission, *Leptographium wageneri* 6324
***Stereum hirsutum***
biochemistry
enzymes 1869, 1882
Nematoda 1882
***Stereum ostrea*,** forest trees, Taiwan 2378
**Sterol biosynthesis inhibitors,** development 8102
***Stigmella tirumalensis***
*Elaeodendron glaucum*
India 7366
taxonomy 7366
***Stigmina*,** taxonomy 5042
***Stigmina carpophila***
apricots
Czechoslovakia 2229
varietal reactions 7749
cherries
flavanols 2931
histochemistry 2931
Jammu and Kashmir 3842
yield losses 3842
peaches
control 6164
Mexico 6164
plums
flavanols 2931
histochemistry 2931
***Stigmina collinsiae*,** taxonomy, new species 7361
***Stigmina dehradunensis***
*Ougeinia oojeinensis*
India 590
taxonomy 590
***Stigmochora controversa*,** IMI descriptions 1903
***Stipa pulchra***
*Glomus*
mycorrhizas
ecology 4993
plant competition 4993
***Stomatinia gladioli***
tomatoes
roots 8560
ultrastructure 8560
**Stone fruits**
diseases, India 1354

**Stone fruits** *cont.*
*Monilinia fructicola*
control 1057
fungicide tolerance 3835, 7747
New Zealand 3835, 7747
Washington 1057
*Monilinia fructigena*
control 8606
Switzerland 8606
*Monilinia laxa*
control 1057, 8606
Switzerland 8606
Washington 1057
*Phytophthora*, Switzerland 2930
plum pox potyvirus, detection 1056
*Pseudomonas syringae*, reviews 6938
viruses
elimination 1584
grafting 1584
**Storage decay**
*Acca sellowiana* 3885
almonds 7808
apples 1046, 1580-1581, 2220-2221, 2930, 2932, 2961-2962, 3822, 3826, 4608, 5392, 8607
*Brassica* 3751
cabbages 1363-1364
*Capsicum* 8578
carrots 410, 1363-1364, 2169
celery 3758
cereals 1378, 1983, 2629, 3492, 7445
cherries 7750, 7752
citrus 3015, 3875, 4667
cocoa 2340
*Colocasia antiquorum* 3742
cotton 7896
cucumbers 8597
fruit 5840, 6141-6142
grapes 2254, 2988, 7784
groundnuts 8691
guar 8471
kiwifruits 3001-3002, 3863-3864, 4656, 6195, 7428, 7792, 7794
lemons 7428
lettuces 1543
*Litchi chinensis* 3028-3032, 3879
maize 2051-2052, 3595, 6697, 6704, 7500
mangoes 1608, 3021
melons 3808, 6899
onions 2860-2861, 4543, 4548
oranges 5442, 6205-6206
pawpaws 2962, 3037, 7807
pears 2930, 2932, 4608, 4619, 5396, 8607, 8616
*Phaseolus vulgaris* 6774
potatoes 405, 1363-1367, 1501-1503, 1508-1509, 1514, 1518, 1521, 2162, 2844, 2849, 3728, 5283, 6046-6048, 6061, 6814, 7428, 8485, 8493
quinces 8620
rice 1460
*Sechium edule* 3793-3794
seeds 130
soyabeans 2105
strawberries 3850, 4639, 5419, 7428
sugarbeet 7861, 8712
swedes 1526
sweet potatoes 3740, 5300
tomatoes 4580, 5337, 8563
turnips 1526
vegetables 1365-1367, 1501, 3462, 5840
walnuts 7808
wheat 837
**Storage disorders**
apples 5392, 6927-6929
bananas 8647
potatoes 3736
**Strawberries** (*Fragaria* spp.)
*Alternaria alternata*
histopathology 8628
host parasite relationships 7777
toxins 6949, 7777, 8628
varietal reactions 6949
*Botrytis*
control 3850
storage 3850
*Botrytis cinerea*
Belgium 6173
biological control 478, 8629
breeding 6171

**Strawberries** *cont.*
*Botrytis cinerea cont.*
control 4639, 5420, 6173, 7774
forecasting 7772
integrated control 5833, 6950, 7767
Ohio 7772
reviews 7767
storage 4639
*Colletotrichum*, Florida 1063
*Colletotrichum acutatum*
control 7770
Florida 7770
forecasting 7772
genetic variation 7776
genetics 476
Honshu 5422-5423
models 2244
Ohio 477, 7772
overwintering 477
spore dispersal 2244
taxonomy 7768
*Corticium rolfsii*, Honshu 5421
diseases
books 5417
Bulgaria 6947
control 3849, 5417, 6169, 6947, 8241
integrated control 1359
Italy 1359
Queensland 5417
USA 6169
fungi
Finland 7766
Ontario 1064
fungicide residues, determination 6454
*Fusarium oxysporum* f.sp. *fragariae*
Nematoda 3851
yield losses 3851
*Gloeosporium*
Colombia 4638
control 4638
*Glomerella cingulata*
control 1591, 7770-7771
Florida 7770
genetic variation 7776
genetics 476
Honshu 5423
infection 1591
Kyushu 1590
taxonomy 7768
*Glomus*
mycorrhizas
growth 3341
varietal reactions 3341
June yellows, ultrastructure 1062
*Mycosphaerella fragariae*
flavanols 2931
histochemistry 2931
pesticide residues, Germany 2472
*Phytophthora cactorum*
forecasting 7772
Ohio 7772
selection 6172
Sweden 1351
*Phytophthora fragariae*
control 7769
North America 7769
roots 7773
spread 6951
varietal reactions 7773
replant disease, soil treatment 7765
*Sphaerotheca macularis*
control 7775
fungicide tolerance 2245
storage decay
biological control 7428
control 5419
strawberry crinkle cytorhabdovirus
Poland 5418
varietal reactions 5418
strawberry mild yellow edge luteovirus, detection 7422
strawberry mottle virus
characteristics 2980
Poland 5418
varietal reactions 5418
*Verticillium dahliae*
pathogenicity 6948
soil treatment 7765
strains 6948
viruses, elimination 6170

**Strawberry crinkle cytorhabdovirus**
strawberries
Poland 5418
varietal reactions 5418
**Strawberry latent ringspot nepovirus**
olives
immunodiagnosis 3900
Portugal 3900
parsley
Italy 3201, 6351
seeds 3201, 6351
transmission 3201, 6351
**Strawberry mild yellow edge luteovirus,** strawberries, detection 7422
**Strawberry mottle virus**
strawberries
characteristics 2980
Poland 5418
varietal reactions 5418
**Streptocycline**
control
*Diplodia rosarum*, roses 4855
*Pseudomonas mori*, mulberries 6953
*Pseudomonas syringae* pv. *syringae*, apricots 8621
*Xanthomonas campestris* pv. *cyamopsidis*, guar 4507
*Xanthomonas campestris* pv. *vignicola*, cowpeas 7630
seed treatment
cowpeas 7630
*Phaseolus vulgaris* 3689
***Streptomyces***
activity, *Gaeumannomyces graminis*, wheat 5163
*Amaranthus*
biological control 8000
toxins 8000
antagonism, *Xanthomonas campestris* pv. *cyamopsidis* 4508
control
*Fusarium oxysporum* f.sp. *gerberae*, *Gerbera* 614
*Fusarium oxysporum* f.sp. *vasinfectum*, sesame 7844
*Phytophthora nicotianae* var. *parasitica*, sesame 7844
plant pathogens 15
*Pleospora betae*, sugarbeet 541
*Pseudocercosporella herpotrichoides*, wheat 275
*Pythium*, sugarbeet 542
*Digitaria*
biological control 8000
toxins 8000
molecular genetics, restriction fragment length polymorphism 3735
potatoes
characteristics 1522
control 1521
Quebec 1522
Siberia 1521
storage 1521
strains 3735
taxonomy 3735
sweet potatoes
North Carolina 4533
varietal reactions 4533
yield losses 4533
***Streptomyces acidiscabies***
biochemistry, cutinase 673
potatoes
characteristics 1522
Quebec 1522
***Streptomyces aureofaciens***, potatoes, Uttar Pradesh 3731
***Streptomyces aureus***
control
*Valsa mali*, apples 464
*Valsa paulowniae*, *Paulownia* 5548
***Streptomyces chibaensis***, antagonism, *Fusarium oxysporum* f.sp. *psidii* 5454
***Streptomyces chromogenus***
potatoes
control 1521
Siberia 1521
***Streptomyces globisporus***
potatoes
control 1521
Siberia 1521

***Streptomyces griseobrunneus***
potatoes
control 1521
Siberia 1521
***Streptomyces griseolus***
control
*Fusarium solani, Panax pseudoginseng* 5592
*Nectria radicicola, Panax pseudoginseng* 5592
***Streptomyces griseoviridis***
antagonism, *Pseudocercosporella herpotrichoides* 8263
hyperparasitism, plant pathogens 4175
***Streptomyces griseus,*** pathogenesis-related proteins, detection 7425
***Streptomyces hygrospinosus* var. *beijingensis,*** control, *Valsa mali,* apples 7738
***Streptomyces ipomoea***
biochemistry, cutinase 673
sweet potatoes, soil water potential 5301
***Streptomyces scabies***
biochemistry, cutinase 673
molecular genetics
enzymes 5658
gene expression 5658
potatoes
breeding 986
characteristics 1522
control 404
Czechoslovakia 986
defence mechanisms 3729
environmental factors 404
fertilizers 1503, 6825
histopathology 1523
morphology 3729
Quebec 1522
rotations 3713
storage 1503
symptoms 404
toxins 7654
varietal reactions 1523
soil, straw 1893
***Streptomyces variabilis***
control
*Fusarium solani, Panax pseudoginseng* 5592
*Nectria radicicola, Panax pseudoginseng* 5592
***Streptomyces violaceus***
potatoes
control 1521
Siberia 1521
***Streptomyces virginiae***
control
*Fusarium solani, Panax pseudoginseng* 5592
*Nectria radicicola, Panax pseudoginseng* 5592
**Streptomycin**
activity
bacteria 4055
*Erwinia amylovora* 2933
*Xanthomonas campestris* pv. *passiflorae,* passion fruits 6221
*Xanthomonas campestris* pv. *vesicatoria* 6128
*Capsicum* 1010
tomatoes 1010
control
*Cladosporium herbarum,* rice 5226
*Erwinia amylovora, Crataegus monogyna* 4859
*Rhizoctonia solani,* rice 5945
*Ulocladium chartarum*
apples 2962
pawpaws 2962
*Xanthomonas campestris* pv. *phaseoli, Phaseolus vulgaris* 369
*Xanthomonas oryzae* pv. *oryzae,* rice 5945
*Xanthomonas oryzae* pv. *oryzicola,* rice 5945
resistance
*Erwinia amylovora* 7
*Pantoea agglomerans* 2933
*Pseudomonas* 2933
***Striga hermonthica***
*Fusarium nygamai,* biological control 8851
***Striga hermonthica*** *cont.*
*Glomus fasciculatum,* biological control 7295
***Strychnos nux-vomica,*** plant extracts, antifungal agents 2733
***Strychnos potatorum,*** plant extracts, antifungal agents 2733
***Stylosanthes***
*Colletotrichum,* genetics 7350
*Glomerella cingulata*
Africa 6759
Australia 6759
isolates 6759
Latin America 6759
molecular genetics 6758
South East Asia 6759
***Stylosanthes guianensis***
*Glomerella cingulata*
chitinase 4463
induced resistance 4463
molecular genetics 4462
Queensland 4462
seed treatment, seed germination 2773
***Stylosanthes scabra***
*Corticium rolfsii,* Uttar Pradesh 7585
*Glomerella cingulata,* models 2097
**Subalpine fir** (*see Abies lasiocarpa)*
**Subterranean clover** (*see Trifolium subterraneum)*
**Subterranean clover mottle sobemovirus**
molecular genetics
nucleotide sequences 4244
satellite RNA 4244
*Trifolium subterraneum*
Australia 2095
host range 2094
seeds 4458
transmission 2094
varietal reactions 2094
Western Australia 4458
yield losses 4458
**Subterranean clover stunt virus,** *Trifolium subterraneum,* Australia 2095
**Subtropics,** greenhouse crops, diseases 6594
**Sudan**
*Catharanthus roseus,* mycoplasma-like organisms 7132
*Crotalaria saltiana,* phyllody 4471
faba beans, phyllody 4471
potatoes, viruses 972
**Sudan grass** (*see Sorghum sudanense)*
**Sugarbeet** (*Beta vulgaris* var. *saccharifera*)
*Aphanomyces cochlioides*
biological control 3469
control 5489
forecasting 543
Sweden 543
UK 5489
*Aspergillus japonicus,* host parasite relationships 3919
bacteria
control 1962
tissue culture 1962
beet curly top intergeminivirus, reviews 1651
beet mosaic potyvirus, Greece 4728
beet necrotic yellow vein furovirus
abscisic acid 7857
Beijing 537
biochemistry 1115
biological control 2332
biotechnology 6260
breeding 6261
control 1118, 5487
Czech Republic 2333
Czechoslovakia 538
detection 3087
gas exchange 7856
genetic transformation 6261
Hungary 7855
immunodiagnosis 5488
Italy 3089
Kyrgyzstan 8708
mixed infections 7854
Ningxia 7852
plant water relations 7857
Poland 5485
research 1118
selection 3090, 6260, 8708-8709
stomata 7858
temperature 7851
**Sugarbeet** *cont.*
beet necrotic yellow vein furovirus *cont.*
transmission 2332
UK 5487
varietal reactions 536, 6262, 7855-7858, 8702
vectors 7851, 7854-7855
yield losses 6262
beet soil-borne furovirus
mixed infections 7854
vectors 7854
yield losses 6263
beet western yellows luteovirus
control 1119, 7853, 8705
Czechoslovakia 4727
diagnosis 1120
forecasting 5486
France 1119-1120
genetic transformation 2562
models 1116
Poland 5485
reservoir hosts 4727
resistance 2562
spread 1116
transmission 5486, 8705
vectors 1119, 7853
beet yellows closterovirus
biochemistry 1115
control 3086, 7853, 8705
forecasting 8707
immunodiagnosis 3088
models 1116, 8706
Netherlands 8707
Poland 5485
spread 1116
transmission 8705-8706
UK 8706
vectors 7853, 8707
*Bipolaris sacchari*
screening 539
toxins 539
*Botrytis cinerea*
biological control 8712
Japan 8712
storage 8712
*Cercospora beticola*
biochemistry 3092
breeding 1123
control 2335, 3295, 3923-3924, 4730, 6446, 8713
France 1123
Italy 2335, 3922-3924
Poland 4730
Rajasthan 8711
reviews 1650
selection 6264
toxins 7860
varietal reactions 2335, 3922, 4730, 8702, 8710-8711
*Colletotrichum dematium* f.sp. *spinaciae*
Hokkaido 1649
reviews 1649
*Corticium rolfsii*
biological control 4731
enzymes 2336
salinity 2336
cucumber mosaic cucumovirus, Greece 4728
diseases
biotechnology 6259
books 1773
breeding 3915, 6259, 8703
control 535, 1122, 3916, 7047, 8096
cultural methods 534
forecasting 1114
France 1122, 3916
integrated control 3085
tillage 2334
UK 534
Ukraine 8704
USSR 1114, 3085, 7047
varietal reactions 8704
*Erysiphe betae*
control 3086, 3918, 4730
Poland 4730
UK 3918
varietal reactions 4730
foot rot, mineral deficiencies 544
*Fusarium,* toxins 7859
*Fusarium culmorum*
control 5489

**Sugarbeet** *cont.*
*Fusarium culmorum cont.*
UK 5489
*Glomus*
mycorrhizas
fertilizers 5727
fungicides 5727
Germany 5727
population dynamics 5727
*Helicobasidium purpureum*
control 5489
UK 5489
*Monosporascus cannonballus*, pathogenicity 8602
*Penicillium expansum*
biological control 8712
Japan 8712
storage 8712
*Peronospora farinosa* f.sp. *betae*
epidemiology 4729
Slovakia 4729
*Pleospora betae*
biological control 540-541
control 3086
host parasite relationships 3919
seed treatment 3091
*Polymyxa betae*
control 3920
Czech Republic 2333
Kyrgyzstan 8708
selection 8708
*Pythium*
forecasting 543
Irish Republic 1121
Sweden 543
*Pythium irregulare*, biological control 542
*Pythium mamillatum*, biological control 542
*Pythium ultimum*, biological control 542, 3469, 3925
*Ramularia beticola*
Denmark 6265
epidemiology 6265
models 6265
*Rhizoctonia solani*
biological control 1968
enzymes 2336
forecasting 543
host parasite relationships 3919
isolates 4197
salinity 2336
survival 3921
Sweden 543
storage decay, control 7861
tobacco mosaic tobamovirus, infection 4726
tomato black ring nepovirus, Beijing 537
tomato golden mosaic bigeminivirus, host parasite relationships 2583
viruses
Czechoslovakia 4725
seeds 4725
**Sugarcane** (*Saccharum officinarum*)
*Bipolaris sacchari*
control 3083
Cuba 4722
Pakistan 3084
varietal reactions 4722
*Ceratocystis paradoxa*
budding 4723
reviews 2330
varietal reactions 4723
*Clavibacter xyli* subsp. *xyli*
control 1109
harvesters 1646
immunodiagnosis 7045
reviews 1648
South Africa 533
spread 1646
varietal reactions 1646
*Cochliobolus pallescens*, plant extracts 3910
diseases
books 1773
control 1110, 1113, 3075
Cuba 2329
Hawaii 532
integrated control 7849, 8697
Pakistan 8697
South America 3074
**Sugarcane** *cont.*
diseases *cont.*
tissue culture 3075
varietal reactions 2329
vegetative propagation 1113
*Gibberella fujikuroi*
control 8700
ecology 1111
interactions 1111
isolates 5483
pathogenicity 5483
*Gibberella fujikuroi* var. *subglutinans*
budding 4723
isolates 5483
pathogenicity 5483
varietal reactions 4723
*Glomerella tucumanensis*
control 1109
culture 3911
ecology 1111
interactions 1111
Nematoda 5482
Nigeria 5482
phytoalexins 2331
plant extracts 3910
reviews 1644
Tamil Nadu 2328
varietal reactions 2328, 3909, 3912, 5482
yield losses 5482
grassy shoot
mycoplasma-like organisms 1641, 7039, 7850
Tamil Nadu 7850
yield losses 1641
maize streak monogeminivirus, histopathology 3487
mycoplasma-like organisms
serology 5836
Thailand 5836
*Mycovellosiella koepkei*
environmental factors 3082
enzymes 4720
Trinidad and Tobago 3082
varietal reactions 3082, 4720
*Mycovellosiella sacchari*
taxonomy 759
West Bengal 759
*Periconia atropurpurea*, plant extracts 3910
*Peronosclerospora sacchari*
breeding 5481
Taiwan 5481
*Phoma*, taxonomy 3913
phylloplane fungi, Uttar Pradesh 3079
*Phyllosticta*, taxonomy 3913
*Puccinia*
Kyushu 7041
phenology 7041
*Puccinia melanocephala*
Colombia 6255
control 1643
environmental factors 1642, 3082
Jamaica 7040
Kyushu 7041
Pakistan 3084
phenology 7041
Queensland 1642
races 1642
selection 7040
Trinidad and Tobago 3082
Uttar Pradesh 1643
varietal reactions 1643, 3080, 3082, 4719, 6255
Venezuela 3080
rhizosphere fungi, interactions 6258
sugarcane Fiji disease fijivirus
detection 1640
RNA 1640
sugarcane grassy shoot, control 1109
sugarcane mosaic potyvirus
Andhra Pradesh 5480
Colombia 6255
hosts 5480
physiology 8698
Taiwan 3076
varietal reactions 3076, 6255
yield losses 3077
*Ustilago scitaminea*
Argentina 7042
biology 8701
**Sugarcane** *cont.*
*Ustilago scitaminea cont.*
Colombia 6255
control 1109, 3081, 6257, 8699, 8701
drought 7042
environmental factors 3081-3082
Jamaica 7040
Louisiana 6256, 8701
Nigeria 6257
reviews 1645
selection 7040
soil water 6256
survival 6256
Trinidad and Tobago 3082
varietal reactions 3078, 3082, 3909, 4721, 6255, 7042
viruses, taxonomy 167
white leaf
mycoplasma-like organisms 5107
Thailand 5107
*Xanthomonas albilineans*
conferences 3914
control 7044
detection 1112
Louisiana 7046
reviews 1647
Taiwan 5484
testing 4724
*Xanthomonas campestris* pv. *vasculorum*, testing 7043
**Sugarcane bacilliform badnavirus**
bananas, molecular genetics 3437
rice, molecular genetics 3437
**Sugarcane Fiji disease fijivirus**
RNA 805
sugarcane
detection 1640
RNA 1640
**Sugarcane mosaic potyvirus**
ecology 166
Gramineae, hosts 5480
maize
cytology 296
Hungary 2049
varietal reactions 4297
*Pennisetum americanum*
Queensland 8359
varietal reactions 8359
sorghum
Hungary 3606
strains 3606
varietal reactions 4297
sugarcane
Andhra Pradesh 5480
Colombia 6255
hosts 5480
physiology 8698
Taiwan 3076
varietal reactions 3076, 6255
yield losses 3077
taxonomy 166, 188
*Tripsacum dactyloides*, Kansas 5977
**Sugarcane streak monogeminivirus**, molecular genetics, nucleotide sequences 8212
***Suillus***
*Pseudotsuga menziesii*, mycorrhizas 89
trees, mycorrhizas 2501
***Suillus americanus***, cell division 4136
***Suillus bovinus***
biochemistry, enzymes 1258
*Pinus sylvestris*, mycorrhizas 704, 3326
***Suillus brevipes***, *Pinus patula*, mycorrhizas 6476
***Suillus collinitus***
culture media, growth 4138
*Pinus pinea*, mycorrhizas 91
***Suillus cothurnatus***, cell division 4136
***Suillus granulatus***
culture media, growth 4138
*Pinus densiflora*, mycorrhizas 6469
*Pinus strobus*, mycorrhizas 6469
*Pinus wallichiana*, mycorrhizas 6469
***Suillus grevillei***
*Larix leptolepis*, mycorrhizas 6481
*Picea sitchensis*, mycorrhizas 6481
***Suillus luteus***
*Pinus*, mycorrhizas 8130
*Pinus radiata*, mycorrhizas 2502
***Suillus placidus***, *Pinus cembra*, mycorrhizas 5704

***Suillus plorans*, *Pinus cembra*,** mycorrhizas 5704
***Suillus sibiricus*, *Pinus cembra*,** mycorrhizas 5704
***Suillus tomentosus***
spore germination 4134
stains 4134
**Sulfur**
activity
*Alternaria alternata* 686
*Erysiphe graminis*, wheat 3519
*Leptosphaeria nodorum*, wheat 3519
*Oidium heveae* 578
*Podosphaera leucotricha*, apples 3821
control
*Ascochyta*, grapes 6970
*Botrytis cinerea*, grapes 2254
*Botrytis fabae*, faba beans 4472
*Erysiphe betae*, sugarbeet 3918
*Erysiphe cruciferarum*, Indian mustard 3756
*Erysiphe graminis*, wheat 3511
*Erysiphe polygoni*
*Phaseolus* 6609
*Vigna radiata* 383
*Ganoderma boninense*, oil palms 2314
*Leptoxyphium fumago*, mangoes 1610
*Microxyphium columnatum*, mangoes 1610
*Peronospora humuli*, hops 2419
*Phomopsis viticola*, grapes 4651
*Phytophthora infestans*, tomatoes 6609
pigeon peas, seedborne fungi 3706
*Podosphaera leucotricha*, apples 2939
*Puccinia recondita*, wheat 3530
rice, diseases 7535
*Tripospermum myrti*, mangoes 1610
*Uncinula necator*, grapes 4651
*Venturia inaequalis*, apples 2939
phytotoxicity, grapes 6970
residues, grapes 2254
**Sulfur dioxide**
activity
*Abies concolor* 594
*Abies lasiocarpa* 594
*Acer rubrum* 1696
*Acer saccharum* 7110
crops, diseases 5834
*Liriodendron tulipifera* 1696
*Picea abies* 595, 4848, 6321
*Picea engelmannii* 594
*Pinus ponderosa* 594
*Pinus sylvestris* 595
*Prunus serotina* 1696
*Pseudotsuga menziesii* 594
*Quercus rubra* 1696
control
*Aspergillus niger*, onions 4543
*Botrytis cinerea*
grapes 2992, 7784
kiwifruits 3864, 7792
*Litchi chinensis*, storage decay 3030-3032
damage
*Picea abies* 5550
*Pinus sylvestris* 5550
**Sulfuric acid,** control, *Xanthomonas campestris* pv. *malvacearum* 1138
**Summer squashes** (*see Cucurbita maxima; Cucurbita pepo)*
**Sunflowers** (*Helianthus annuus)*
*Alternaria*
seeds 3894
toxins 3894
*Alternaria alternata*
environmental factors 3895
Indian Punjab 3895
seeds 3895
*Alternaria helianthi*
environmental factors 3895
Indian Punjab 3895
Italy 4709
Karnataka 525
seeds 525, 3895
toxins 4706, 7819
varietal reactions 7820
*Aspergillus flavus*
seeds 4280
toxins 4280
**Sunflowers** *cont.*
*Aspergillus flavus cont.*
varietal reactions 4280
*Botrytis cinerea*
control 8678
epidemiology 8678
infection 1095
seed treatment 6241
carbendazim, activity 2462
*Colletotrichum helianthi*, Cuba 7818
*Corticium rolfsii*
seeds 3896
survival 3896
*Diaporthe helianthi*
control 1627
heterosis 2302
Moldova 2308
variation 2308
varietal reactions 2300
*Diaporthe phaseolorum*
Hungary 2301
varietal reactions 2301
diseases
control 4708, 7019
Italy 521
Moldova 3899
reviews 4707
Russia 3899
Yugoslavia 4708
*Erysiphe polygoni*, enzymes 1967
*Euoidium*
biological control 4705
Cuba 4705
*Glomus*
mycorrhizas
growth 4158
nutrients 4157
soil organic matter 4158
*Macrophomina phaseolina*
host parasite relationships 2304
Hungary 7417
seed oils 7018
varietal reactions 7417
*Phoma oleracea* var. *helianthi-tuberosi*, control 1627
*Phomopsis*
breeding 1630
control 3049, 3051
forecasting 3050
France 3048-3049
taxonomy 2306
Yugoslavia 2306, 3051
plant oils, antifungal agents 4611
*Plasmopara halstedii*
Europe 523
genetics 8674
identification 524
inoculation 522
Madhya Pradesh 3052
mycoviruses 2307
North Dakota 2307
races 523-524
reviews 6239
Turkey 520
potato Y potyvirus, Czech Republic 7817
*Puccinia helianthi*
Argentina 2303
breeding 2303
control 3047
enzymes 1967
genetic resources 6238
genetics 8675
Israel 3047
reviews 6240
yield losses 3047
*Sclerotinia*, breeding 1630
*Sclerotinia sclerotiorum*
ascospores 8676
biological control 226, 1626, 2608, 7017
breeding 3046
control 1627, 3897-3898, 5841, 8677
cropping systems 1626
epidemiology 8676
France 3898
genetics 5465
Heilongjiang 3897
host parasite relationships 5465
Hungary 2301
infection 1095
inoculum 2309
**Sunflowers** *cont.*
*Sclerotinia sclerotiorum cont.*
Liaoning 3053
Manitoba 1629
pathogenesis-related proteins 2305
resistance 1094, 2299
seeds 3053
UK 8667, 8676
varietal reactions 1629, 2301, 2305, 8667
seedborne fungi
Romania 1628
storage 1628
**Sunn-hemp mosaic tobamovirus**
molecular genetics, movement proteins 210
transmission 169
**Sunn hemp rosette virus,** laboratory tests, plant extracts 7394
**Surfactants,** activity, kohlrabi, diseases 6842
**Suriname,** coconuts, *Phytomonas* 1636
**Sustainability,** biological control agents 7181
**Swaziland**
groundnuts
*Mycosphaerella berkeleyi* 5477
*Puccinia arachidis* 5477
**Sweden**
air spora 4193
barley, *Cochliobolus sativus* 7493
cereals, diseases 1352
Coniferae, root rots 1161
crops, diseases 5838, 8240
fruit, pesticide residues 1227
fruit trees, *Erwinia amylovora* 1351
fungicides, regulations 975
ornamental plants, tomato spotted wilt tospovirus 1351
pesticides
legislation 8062
usage 8062
*Picea abies*
fungi 7119
*Heterobasidion annosum* 3989
*Pinus sylvestris*
blue-stain fungi 1708
*Gremmeniella abietina* 4842
plant diseases 1351-1352
legislation 2487
plant protection, computer techniques 5794
potatoes
*Phytophthora infestans* 975, 1352, 7643, 7645
potato Y potyvirus 1352, 8482-8483
*Quercus robur*, *Ciboria batschiana* 2384
rape, *Sclerotinia sclerotiorum* 517, 1352
*Silene dioica*, *Ustilago violacea* 631, 5607
strawberries, *Phytophthora cactorum* 1351
sugarbeet, damping off 543
tomatoes, tomato spotted wilt tospovirus 1351
*Trientalis europaea*, *Urocystis trientalis* 631
*Valeriana sambucifolia*, *Uromyces valerianae* 631
vegetables, pesticide residues 1227
wheat
diseases 1380-1381
*Leptosphaeria nodorum* 7470
*Mycosphaerella graminicola* 7470
*Tilletia controversa* 2662
*Tilletia laevis* 2662
*Tilletia tritici* 2662, 7464
**Swedes** (*Brassica napus* var. *napobrassica*)
diseases
Russia 1526
storage 1526
varietal reactions 1526
**Sweet cherries** (*see* Cherries)
**Sweet clover necrotic mosaic dianthovirus,** molecular genetics, nucleotide sequences 5073
**Sweet corn** (*see* Maize)
**Sweet oranges** (*see* Oranges)
**Sweet peas** (*Lathyrus odoratus*)
*Rhodococcus fascians*
identification 4870
pathogenicity 4870

**Sweet potato feathery mottle potyvirus**
*Ipomoea setosa*, Nigeria 415
sweet potatoes
Nigeria 415
symptoms 1531
**Sweet potato leaf curl badnavirus,** sweet potatoes, elimination 6834
**Sweet potato sunken vein virus,** sweet potatoes, characteristics 2172
**Sweet potatoes** (*Ipomoea batatas*)
*Acaulospora rugosa*, mycorrhizas, seasonal variation 7298
bacteria
control 1962
tissue culture 1962
*Ceratocystis fimbriata*
control 416
resistance 417
respiration 417
Shaanxi 416
*Cercospora ipomoeae*, Assam 5780
*Cochliobolus lunatus*, Assam 5780
diseases
books 6067
quarantine 989
*Elsinoë batatas*, control 7657
*Erwinia chrysanthemi*, mixed infections 8501
*Fusarium solani*, mixed infections 8501
*Glomus etunicatum*, mycorrhizas, seasonal variation 7298
mycoplasma-like organisms, monoclonal antibodies 8502
storage decay, control 3740, 5300
*Streptomyces*
North Carolina 4533
varietal reactions 4533
yield losses 4533
*Streptomyces ipomoea*, soil water potential 5301
sweet potato feathery mottle potyvirus, symptoms 1531
sweet potato leaf curl badnavirus, elimination 6834
sweet potato sunken vein virus, characteristics 2172
viruses
characteristics 415
diagnosis 1530
elimination 3739
Nigeria 415
tissue culture 3739
*Xanthomonas campestris*, Venezuela 2855
**Swiss chard** (*see* Spinach beets)
**Switzerland**
*Abies alba*
damage 6323
decline 6322
barley, diseases 137
chestnuts, *Cryphonectria parasitica* 1620, 6223
*Fagus sylvatica*, *Nectria ditissima* 1700
*Festuca pratensis*
*Acremonium typhinum* 2090
*Acremonium uncinatum* 2090
*Cochliobolus sativus* 3660
*Puccinia coronata* 3660
*Xanthomonas campestris* pv. *graminis* 3660
forest trees, decline 6291, 8752
forests
decline 1692-1693, 6288, 6290
diseases 6288
fruit trees
damage 2928
diseases 2928
grapes
*Agrobacterium tumefaciens* 6192
flavescence dorée 2249
*Larix decidua*
decline 6302
*Trichoscyphella willkommii* 1720
mycorrhizal fungi, ecology 8133
*Picea abies*
decline 6302
diseases 1716
*Herpotrichia juniperi* 602
mycorrhizas 5706
*Pinus sylvestris*, decline 6302
plums, *Taphrina pruni* 2975
**Switzerland** *cont.*
pome fruits
*Monilinia fructigena* 8606
*Monilinia laxa* 8606
*Phytophthora* 2930
potatoes
*Erwinia carotovora* subsp. *atroseptica* 6826
*Erwinia chrysanthemi* 6826
*Phytophthora infestans* 137
quinces, *Monilinia linhartiana* 8606
rape, *Leptosphaeria maculans* 4698
*Salix herbacea*, *Hymenogaster salicipilus* 8129
stone fruits
*Monilinia fructigena* 8606
*Monilinia laxa* 8606
*Phytophthora* 2930
tomatoes
bacteria 6112
*Fusarium oxysporum* f.sp. *lycopersici* 6106
*Pythium* 6106
stolbur 6094
viruses 6094
wheat
diseases 137, 8269
*Erysiphe graminis* 8308
**Sycamores** (*see Acer pseudoplatanus*)
***Sydowia polyspora***
*Pinus*
insects 1713
Kazakhstan 1713
**Symposia** (*see* Conferences)
***Syncephalastrum racemosum***, *Aspergillus terreus*, antagonism 6258
***Synchytrium endobioticum***
potatoes
breeding 980
detection 6055
estimation 2842
Germany 2842
inoculum 6055
resistance 980
varietal resistance 2842
*Solanum*
Central America 980
pathotypes 980
resistance 980
South America 980
**Syria**
barley, seedborne viruses 5988
chickpeas, *Ascochyta rabiei* 5274
faba beans, seedborne viruses 5988
lentils
seedborne viruses 5988
viruses 3697
***Syzygium aromaticum*** (*see* Cloves)
***Syzygium cordatum***
*Cryphonectria cubensis*
pathogenicity 1085
South Africa 1085
*Harknessia syzygii*
South Africa 4225
taxonomy 4225
***Syzygium cumini***, *Botryodiplodia theobromae*, Tamil Nadu 1184
***Taeniollella subsessilis***, Himachal Pradesh 7356
***Tagetes***, mycorrhizas, estimation 2513
***Tagetes erecta***
*Alternaria zinniae*, physiology 4865
*Macrophomina phaseolina*, Uttar Pradesh 7964
***Tagetes patula***
*Fusarium oxysporum* f.sp. *conglutinans*
elicitors 611
thiophenes 611
viruses, Andhra Pradesh 5571
***Tagosodes orizicolus***, transmission, rice white leaf virus 3632
**Taiwan**
asparagus
*Fusarium oxysporum* f.sp. *asparagi* 8528
*Gibberella fujikuroi* 8528
*Averrhoa carambola*, *Glomerella cingulata* 6219
bamboos
bamboo mosaic potexvirus 7161
*Podosporium elongatum* 5600
**Taiwan** *cont.*
bananas, viruses 3003
*Capsicum*
*Phytophthora infestans* 7681
*Xanthomonas campestris* pv. *vesicatoria* 6128
chrysanthemums, *Puccinia horiana* 4867
citrus
citrus tatter leaf virus 3013
citrus tristeza closterovirus 3013
diseases 3010
greening 3010, 3013, 3019
viruses 3003
Cucurbitaceae
*Pseudoperonospora cubensis* 4602
*Sphaerotheca fuliginea* 4601
*Dendrobium*, *Pseudocercospora dendrobii* 7143
forest trees, Basidiomycetes 2378
garlic, garlic latent virus 6070
*Gibberella fujikuroi*, toxins 3372
grapefruits, *Xanthomonas campestris* pv. *citri* 6212
grapes
*Phomopsis longiparaphysata* 2257
viroids 6178
groundnuts
pod rot 7833
*Puccinia arachidis* 4715
*Pythium myriotylum* 7834
guavas, *Pestalotiopsis psidii* 6216
*Koelreuteria elegans*, *Bulbouncinula bulbosa* 7373
Leguminosae, viruses 2776
*Lilium*, *Phytophthora nicotianae* var. *parasitica* 7140
maize
maize dwarf mosaic potyvirus 3076
maize stripe tenuivirus 7498
*Pseudomonas andropogonis* 5927
*Pseudomonas avenae* 5927
*Puccinia polysora* 4386-4387, 5917
*Puccinia sorghi* 4386-4387, 5917
melons, melon vein-banding mosaic potyvirus 3789
oranges, *Xanthomonas campestris* pv. *citri* 6212
pawpaws, papaya ringspot potyvirus 3035
peaches, *Tranzschelia discolor* 6943
pears, *Xylella fastidiosa* 7745
*Perilla crispa*, *Pseudomonas solanacearum* 8830
*Phytophthora*, taxonomy 763
plant pathology, research 4051
plants, diseases 8237
rice
mycoplasma-like organisms 2730
viruses 2730
*Solanum nigrum*, *Phytophthora infestans* 7681
soyabeans, *Phakopsora pachyrhizi* 4467
sugarcane
*Peronosclerospora sacchari* 5481
sugarcane mosaic potyvirus 3076
*Xanthomonas albilineans* 5484
tobacco
*Alternaria alternata* 8730
diseases 5492
viruses 5493
tomatoes
groundnut bud necrosis virus 8203
*Phytophthora infestans* 7681
vegetables, viruses 2856
watermelons, groundnut bud necrosis virus 8203
***Talaromyces flavus***
antagonism
*Corticium rolfsii* 2125
*Sclerotinia sclerotiorum* 740
*Verticillium dahliae* 2125
**Tamarinds** (*Tamarindus indica*)
*Pestalotia macrotricha*, Karnataka 1614
***Tamarindus indica*** (*see* Tamarinds)
***Tamus communis***
tamus red mosaic potexvirus
characteristics 4891
Italy 4891
**Tamus red mosaic potexvirus**
*Tamus communis*
characteristics 4891

**Tamus red mosaic potexvirus** *cont.*
*Tamus communis cont.*
Italy 4891
***Tandonella zizyphi***, *Ziziphus mauritiana*, Assam 5780
**Tangelos**
*Alternaria citri*, control 7799
*Diaporthe citri*, control 7799
**Tangerines** (*see* Mandarins)
**Tanzania**
bananas, *Mycosphaerella fijiensis* 3867
cashews, *Oidium anacardii* 1624
citrus, greening 1606
coconuts
*Fusarium oxysporum* 7823
lethal disease 3059-3061, 3063, 7824
cotton, *Fusarium oxysporum* f.sp. *vasinfectum* 7891
sorghum, diseases 4404
wheat
*Leptosphaeria nodorum* 8311
*Puccinia striiformis* 6649
***Taphrina deformans***
nectarines
Argentina 1060
control 469, 1060
peaches
control 6164, 7760
fatty acids 6944
Italy 7760
Mexico 6164
***Taphrina pruni***
plums
control 2975
Switzerland 2975
***Taraxacum officinale***
*Sclerotinia sclerotiorum*, biological control 6356
tomato ringspot nepovirus, flowering 4898
**Taro** (*see Colocasia esculenta*)
***Tarsonemus talpae***, transmission, *Sarocladium oryzae* 1462
**Tautomycin**, control, *Sclerotinia sclerotiorum*, rape 3890
**Taxonomy**
*Abortiporus roseus*, new combination 2379
*Acaulospora scrobiculata*, new species 7307
*Acidovorax avenae* 7198
*Acidovorax konjaci* 7198
*Acremonium* 8403
*Agrobacterium*
biovars 7186-7187
fatty acid esters 7187
strains 7186
*Alternaria latifunda*, new species 7346
*Alternaria obclavoidea*, new species 7346
*Alternaria triglochinicola*, new species 7987
*Alysidiopsis yunnanensis*, new species 5783
*Amanita austroviridis*, new species 1269
*Amanita basiorubra*, new species 1269
*Amanita luteivolvata*, new species 1269
Aphyllophorales 4221
*Aposphaeria amaranthi*, descriptions 1912
*Appendiculella cunninghamiae*, new species 5781
*Armillaria*, nomenclature 1916
Ascomycotina, morphology 1920
*Aspergillus*
culture media 3410
species 4224
*Aspergillus candidus*, evolution 3406
*Aspergillus flavus*
aflatoxins 7342
morphology 7342
vegetative compatibility groups 7342
*Aspergillus niger*, evolution 3406
*Athelia rolfsii*, teleomorph 1297
*Atkinsonella hypoxylon*, descriptions 1910
*Balansia epichloë*, descriptions 1910
Balansieae 776
*Basidiophora* 766
*Basidiophora montana*, new species 766
*Bauhinus*, new genus 7379
**Taxonomy** *cont.*
bean common mosaic potyvirus 190, 192-193, 211
bean yellow mosaic potyvirus
molecular genetics 189
strains 4249
belladonna mottle tymovirus 7411
*Bipolaris zeae*, teleomorph 4219
*Bivallum pilgerondendri*, new combination 592
*Bivallum podocarpi*, new combination 592
blackeye cowpea mosaic potyvirus 190
*Calonectria colhounii* var. *macroconidialis*, new variety 7374
*Calonectria gracilis*, new species 7374
*Calonectria ilicicola* 7385
*Calonectria morganii*, new species 6570
*Calonectria pteridis*, new species 7374
*Calonectria pyrochroa* 7385
*Calonectria scoparia*, new species 6570
*Calonectria spathiphylli*, new species 7382
*Catacauma* 1913
*Ceratocystiopsis*, DNA 5046
*Ceratocystis* 7370
*Ceratocystis ulmi*, karyotypes 6297
*Cercospora* 5042
*Cercospora leptadeniana*, new species 6552
*Cercospora osirisae*, new species 773
*Cercosporidium diervillae*, new combinations 5787
*Cerotelium* 362
*Chlamydosporium submersum* 6567
*Chloroscypha platycladus*, new species 5782
*Choiromyces meandriformis*, spores 6566
*Cladosporium cucumerinum*, descriptions 1037
*Cladosporium marinum*, new species 8844
*Cladosporium vignae*, descriptions 769
*Clavibacter toxicus*, new species 7574
*Claviceps amamiensis*, new species 2758
clover yellow vein potyvirus, molecular genetics 189
*Cochliobolus carbonum* 2557
*Cochliobolus heterostrophus* 2557
*Cochliobolus zeae*, new species 4219
*Colletotrichum*
lectins 6534
reviews 6564
*Colletotrichum acutatum*, characteristics 7768
*Colletotrichum musae*
genetics 2542
mating types 2542
*Conidiosporomyces*, new genus 778
*Conidiosporomyces ayresii*, new combination 778
*Corticium rolfsii*, teleomorph 1297
*Crumenulopsis atropurpurea*, new combination 1711
*Cylindrocladiella*, reviews 5048
*Cylindrocladium candelabrum*, teleomorphs 6570
*Cylindrocladium crotalariae* 7385
*Cylindrocladium parasiticum*, new species 7385
*Cylindrocladium reteaudii*, descriptions 5043
*Cylindrocladium scoparium*, teleomorphs 6570
*Dactylaria leptosphaeriicola*, new species 7380
Deuteromycetes
morphology 5790
species 5790
Deuteromycotina, reviews 7369
*Dingleya* 706
*Diplodia pinea*, conidia 7363
*Discosia artocreas*, morphology 1922
*Discosia faginea*, morphology 1922
*Discosia subramanianii*, new species 1921
*Discosia tillandsiae*, new species 770
*Drechslera wirreganensis*, new species 293
*Elaphomyces*, spores 6566
*Endoconospora indica*, new species 7375
**Taxonomy** *cont.*
Endogonaceae 3346
Endogonales, reviews 4151
*Endogone alba* 7381
*Erwinia cacticida*, new species 8
*Erwinia carotovora* subsp. *odorifera*, new subspecies 3761
*Erwinia herbicola*, phenotypes 4918
Erysiphales, Germany 6556
*Erysiphe*, numerical taxonomy 1914
fungi 6568
Cuba 3391
nomenclature 1918
polysaccharides 5008
*Fusarium* 1908, 6560, 6569
reviews 4222
*Fusarium acuminatum* subsp. *armeniacum*, new subspecies 4226
*Fusarium oxysporum* f.sp. *lactucum*, new forma specialis 8519
*Fusarium solani* 768
*Gaeumannomyces graminis* var. *maydis*, new variety 5926
*Genea* 1861
Europe 6565
spores 6565
*Gigasperma cryptica* 709
*Glomerella*, reviews 6564
*Glomerella cingulata*, characteristics 7768
*Glomerella musae*
genetics 2542
mating types 2542
*Glomus*, reviews 4151
*Glomus lamellosum*, new species 726
*Halophytophthora*, morphology 4227
*Harknessia eucalyptorum*, new species 4225
*Harknessia fusiformis*, new species 4225
*Harknessia syzygii*, new species 4225
*Hebeloma*, Italy 2550
*Horakiella clelandii* 709
*Hydnangium sublamellatum*, new species 4974
*Hydnoblites* 2556
*Hydnotria tulasnei*, spores 6566
*Hymenogaster saliciphilus*, new species 8129
*Hymenoscyphus*
new combinations 1919
reviews 7364
Slovakia 1919
*Hymenoscyphus ericae* 6502
Hyphomycetes 1906
*Idriella amazonica*, new species 774
*Idriella asaicola*, new species 774
*Idriella euterpes*, new species 774
iris severe mosaic potyvirus, strains 184
*Kabatina mahoniae*, new species 1177
*Karstenula rhodostoma* 3409
*Kirramyces*, new genus 1697
*Knoxdaviesia capense*, new species 7131
*Labyrinthomyces* 706
*Lactarius dryadophilus* 8131
*Leptosphaeria*, species 3407
*Loculotuber gennadii*, new combination 3349
*Lophodermium ellipticum*, new species 6317
*Lophodermium guangxiense*, new species 8792
*Lophodermium piceae* 1169
*Lophodermium pini-sibiricum*, new species 6313
*Macrophomina phaseolina*, sclerotia 1140
*Malajczukia*, new genus 708
*Massariothea similis*, new species 5047
*Massariothea triseptata*, new species 5047
*Megacapitula villosa*, new species 3408
*Melampsoridium betulinum, formae speciales* 2381
*Meliola gneticola*, new species 5781
*Meliola podocarpicola*, new species 5781
*Meliola quercicola*, new species 4799
*Meliola sempeiensis* var. *nicobarica*, new variety 8783
*Microdiplodia frangulae* 3409
*Microsphaeropsis amaranthi*, descriptions 1912
*Monographella nivalis* 858

**Taxonomy** *cont.*
*Montagnula opuntiae*, new combinations 1915
*Mycoamaranthus auriorbis*, new genus 707
*Mycoleptodiscus atromaculans*, new species 1174
mycorrhizal fungi 6498
enzymes 7288
nomenclature 694
*Mycosphaerella bellula*, new species 7359
*Mycosphaerella cussonia*, new species 7359
*Mycosphaerella parkii*, new species 5535
*Mycovellosiella* 5042
*Mycovellosiella passaloroides*, new combinations 5787
*Mycovellosiella sacchari*, new species 759
*Myriangium rosicola*, new species 5563
*Myrothecium groenlandicum*, new species 7907
*Nectria haematococca* 768
*Oidiopsis thryallidis*, new species 7365
*Ophiodothella*, descriptions 1911
*Ophiostoma capense*, new species 7131
*Ophiostoma francke-grosmanniae*, anamorph 3412
*Ophiostoma novo-ulmi*, karyotypes 6297
*Ophiostoma piceae*, ascospores 4228
Ophiostomatales
ascospores 3413
evolution 3413
*Parapithomyces clitoriae*, new species 3404
*Passalora* 5042
*Passalora mertensiae*, new species 7361
*Penicillium*
chemotaxonomy 5041
culture media 3410
pepper mottle potyvirus 185-187
*Peronospora viciae* f.sp. *fabae*, new combination 8172
*Pestalosphaeria accidenta*
China 1309
new species 1309
*Pestalosphaeria hansenii*, China 1309
*Pestalosphaeria jinggangensis*
China 1309
new species 1309
*Pestalotia*, descriptions 757
*Pestalotiopsis* 1310
China 1307-1308, 1898
descriptions 1308
new combinations 1307
proteins 1311-1312
*Pestalotiopsis agallochae*, new species 8844
*Pestalotiopsis longiseta*, new combination 4634
*Phaeoisariopsis* 5042
*Phaeoramularia* 5042
*Phaeoramularia coalescens*, new combination 7361
*Phaeoramularia collomiae*, new species 7361
*Phaeoseptoria eucalypti* 1697
*Phaeostalagmus rossicus*, new species 1756
*Phakopsora* 362
*Phakopsora apludae*, new species 3397
*Phialocephala dimorphospora*, conidia 1923
*Phloeospora mimosae-pigrae*, new species 2430
*Phloeosporella flavio-moralis*, new species 1924
*Phloeosporella kitajimae*, new species 5045
*Phloeosporella muntingia*, new species 7366
*Phoma* 3913
*Phoma boltshauseri*, new combination 8172
*Phoma matteuccicola*, new species 1752
*Phoma medicaginis* var. *macrospora*, new variety 8172
*Phomopsis* 2306
*Phomopsis longiparaphysata*, new species 2257
**Taxonomy** *cont.*
*Phyllactinia verruculosa*, new species 5786
*Phyllosticta* 3913
*Phyllosticta eucalyptorum*, new species 5535
*Phyllosticta glycyrrhizae*, new combination 7975
*Physopella* 362
*Phytophthora*
biochemistry 8176
descriptions 5040
morphology 4227
Taiwan 763
*Phytophthora fragariae*, varieties 4218
*Phytophthora fragariae* var. *rubi* 7763
*Phytophthora nicotianae* 5044
plant pathogens 3405
*Plasmopara*, nomenclature 779
Pleosporales 4223
*Podosordaria ingii*, new species 2287
*Podosporium elongatum*, new species 5600
*Polystigma sonneratiae*, descriptions 589
potato Y potyvirus 185-186
potyviruses 156, 158-160, 162, 164-168, 176-177, 180, 182-183, 188, 191, 205-207
reviews 161, 204
powdery mildews 7376
*Protoventuria barriae*, new species 4637
*Pseudocercospora* 5042
China 5784, 5788, 8173
descriptions 756
*Pseudocercospora adinandrae*, China 5788
*Pseudocercospora amoorae*, new species 749
*Pseudocercospora amphacodes*, new combination 7361
*Pseudocercospora asteracearum*, new species 3398
*Pseudocercospora bretschneiderae*, China 5788
*Pseudocercospora chloroxyli*, new combination 6552
*Pseudocercospora cissi*, new species 7366
*Pseudocercospora cladrastidis*, new combinations 5787
*Pseudocercospora erythroxyli*, new combination 6552
*Pseudocercospora fici-religiosae*, new combination 6552
*Pseudocercospora filiformis*, new combinations 5787
*Pseudocercospora geraniacearum*, new species 7361
*Pseudocercospora macleyae*, new species 5784
*Pseudocercospora moracearum*, new species 3398
*Pseudocercospora nyctanthis*, new combination 6552
*Pseudocercospora pongamiae-pinnatae*, new species 1925
*Pseudocercospora psidii*, new combination 751
*Pseudocercospora punctata*, new combination 1924
*Pseudocercospora rungiae*, new species 3398
*Pseudocercospora sapindi-emarginati*, new combination 6552
*Pseudocercospora sieberiana*, new species 7384
*Pseudocercospora strychni*, new combination 6552
*Pseudocercospora takiensis*, new species 749
*Pseudocercospora toonae*, new species 8173
*Pseudocercospora tylophoricola*, new species 6552
*Pseudocercospora varia*, new combinations 5787
*Pseudocercosporella holarrhenae*, new species 1905
*Pseudocercosporella indica*, new species 1905
**Taxonomy** *cont.*
*Pseudocercosporella litseae*, new species 1905
*Pseudocercosporella myrtacearum*, new species 1905
*Pseudocercosporella shoreae*, new species 1905
*Pseudomonas* 3244, 7198
molecular genetics 4061
*Pseudomonas cissicola* 1215
*Pseudomonas savastanoi*, new species 3249
*Pseudomonas syringae* 1213
*Pseudomonas syringae* pv. *avellanae*, new pathovar 6229
*Pseudomonas syringae* pv. *japonica* 13
*Pseudomonas syringae* pv. *savastanoi*, DNA 3249
*Puccinia cribrata*, Germany 6555
Pyrenomycetes 7372
*Pyrenophora* 2624
*Pyrenophora hordei*, new species 2043
*Pyricularia costina*, new species 759
*Pythium* 5789
computer techniques 1917
isoenzymes 1907
morphology 4227
species 6562
*Pythium cylindrosporum*, new species 6551
*Ramularia achilleae-millefolii*, new species 7361
*Ramularia arvensis* var. *cercosporelloides*, new variety 7361
*Ramularia biscutellae*, new species 7371
*Ramularia epipactidis*, new species 7361
*Ramularia inae*, new species 771
*Ramularia maculicola*, new species 7361
*Reddellomyces* 706
*Rhizoctonia bataticola*, sclerotia 1140
*Rhizoctonia solani*, anastomosis groups 6563
*Royoungia boletoides*, new genus 707
*Sclerostagonospora opuntiae*, new combinations 1915
*Sclerotium bataticola*, sclerotia 1140
*Scutellospora armeniaca*, new species 3350
*Scytalidium vaccinii* 6502
*Seimatosporium grammitum*, new combination 6559
*Seimatosporium kriegerianum* 6554
*Selenophoma mahoniae*, new species 1177
*Septoria bauhiniae*, new species 7954
*Soleella pinicola*, new species 6314
*Sphaerotheca cayratiae*, new species 6561
*Sphaerotheca koreana*, new species 6553
*Sphaerulina mimosae-pigrae*, new species 2430
*Stagonospora pteridiicola*, new species 7163
*Stenella* 5042
*Stenella alocasiae*, new species 750
*Stenella colocasiae*, new species 750
*Stenella naucleae*, new species 758
*Stenella plumeriae*, new species 750
Stephanosporales 4221
*Stigmella tirumalensis*, new species 7366
*Stigmina* 5042
*Stigmina collinsiae*, new species 7361
*Stigmina dehradunensis*, new species 590
*Streptomyces*, strains 3735
*Tectacervulus mahoniae*, new species 1177
*Tilletia controversa*, karyotypes 3537
*Tilletia tritici*, karyotypes 3537
tobacco etch potyvirus, nuclear inclusions 178
tospoviruses, species 5052
*Tranzschelia discolor*, Germany 6555
*Trichoderma atroviride*, descriptions 767
*Trinacrium iridis*, new species 1738
*Tuber*, spores 6566
*Uncinuliella rosae* var. *pruni*, new variety 6155
Uredinales, Germany 6556
*Uredo phyllanthi-nirurae*, new species 3397

**Taxonomy** *cont.*
*Uromyces alyxiae* var. *australiensis*, new species 5608
*Uromyces appendiculatus*, DNA 3414
*Uromyces urgineae*, new species 4007
Ustilaginales
Germany 6556
new combinations 777
new species 777
synonyms 777
*Ustilago phrygica* 861
*Valsa mali* var. *pyri*, new variety 8617
*Vararia maremmana*, new species 764
*Verticillium*, restriction fragment length polymorphism 1292
viruses 163, 175
species 170
*Wuestneia eucalyptorum*, new species 4225
*Xanthomonas* 6412
*Xanthomonas campestris*, metabolism 14
*Xanthomonas populi*, new species 3251
*Xylaria*, keys 7377
*Zymoxenogloea eriophori*, descriptions 1758
***Taxus***, *Phytophthora cinnamomi*, Ohio 7128
**TBZ** (*see* Thiabendazole)
**Tea** (*Camellia sinensis*)
diseases
China 3926
control 545, 3926
Republic of Georgia 545
*Hypoxylon serpens*, control 4732
**Teak** (*see Tectona grandis*)
**Tebuconazole**
activity
guavas, wilt 7805
rape 8671
wheat, diseases 8287
control
*Alternaria brassicae*, rape 8671
*Alternaria macrospora*, cotton 1673
*Blumeriella jaapii*, cherries 8623
*Botryosphaeria dothidea*, apples 4613
*Botrytis cinerea*
crops 5833
greenhouse crops 5831
roses 2407
*Ruscus hypoglossum* 3995
cereals, diseases 3502
*Claviceps purpurea*, *Poa pratensis* 8401
*Corticium rolfsii*, groundnuts 1102
*Crinipellis perniciosa*, cocoa 4751
groundnuts, diseases 8695
*Leptosphaeria maculans*, rape 2296, 8671
*Leptosphaeria nodorum*, wheat 268, 4343, 6660, 7473
*Mycosphaerella graminicola*, wheat 268, 7472-7473
*Oidium*, tomatoes 6107
*Phaseolus vulgaris*, diseases 5261
*Populus*, diseases 7089
*Puccinia helianthi*, sunflowers 3047
*Puccinia striiformis*
barley 5893, 7486
wheat 6649
*Pyrenopeziza brassicae*, rape 8671
*Pyrenophora graminea*, barley 2041
*Pyrenophora tritici-repentis*, wheat 4308
*Rhizoctonia solani*
barley 5901
rough lemons 4670
*Rhynchosporium secalis*, barley 5899
*Salix*, diseases 7089
*Ustilago segetum* var. *tritici*, wheat 2010
wheat, diseases 3515, 8285, 8323
fungicide residues
*Capsicum* 1800
sour oranges 1800
seed treatment, barley 5893
**Techniques**
aerial photography, citrus 6980
amplification, tomato yellow leaf curl bigeminivirus, DNA 2190
analysis
enzymes 152
fungicides 1237

**Techniques** *cont.*
analysis *cont.*
mycotoxins 149-152, 8405
pesticide residues 57, 1225, 1796, 5679, 7205
fruit 1226
leeks 1228
onions 1228
soil 7201, 7218-7227, 7258
vegetables 1226
water 1820, 2470-2471, 8075
pesticides 3285
phytoalexins
Cruciferae 4551
oats 6690
phytotoxins 128
polysaccharides, plant diseases 153
application
antibiotics, *Phaseolus vulgaris* 369
biological control agents 146
fungicides
olives 6243
strawberries 7775
wheat 6642-6643
pesticides 3258, 3260, 4094
fruit trees 6911
sugarbeet 7853
*Pseudomonas cepacia*, maize 1413
assays
soil biology, *Rhizoctonia solani* 620
soil treatment, *Phytophthora infestans* 4013
viruses, transmission 8204
assessment
biological control agents, ecology 659
*Cercospora sojina*, soyabeans 5994
cereals, diseases 4295
pesticides
environmental impact 8037
hazards 8109
nontarget effects 7260-7262, 8107-8108
occupational hazards 8044
*Phytophthora infestans*, potatoes 976
sorghum, diseases 305
sulfur dioxide, Coniferae 595
*Trifolium repens*, diseases 7582
*Xanthomonas campestris* pv. *pruni*, plums 468
bioassays
antifungal agents 6719
apples, replant disease 1050
fungicide tolerance 7250
phytotoxicity, pesticides 7214
*Pseudomonas syringae*, toxins 664
*Synchytrium endobioticum*, potatoes 6055
tolclofos-methyl, *Phaseolus vulgaris* 2792
biological control, *Botrytis cinerea*, strawberries 478
breeding, crops, diseases 8183
certification, fruit trees, viruses 7270
characterization, fungal spores 1874
classification, *Fusarium oxysporum* f.sp. *pisi*, races 7617
cloning, viruses 5806
computer software
plant pathology, Nebraska 4907
plant protection 5792
plant viruses 6582
wheat, diseases 5853
computer techniques
barley, diseases 7435
*Botrytis cinerea*, ornamental plants 3168
evaluation, pesticides 20
*Picea abies*, red rot 7943
wheat, diseases 7435
crystallization, cauliflower mosaic caulimovirus 1333
culture
*Ascochyta rabiei* 3703
*Diaporthe phaseolorum* var. *sojae* 1486
*Glomerella tucumanensis* 3911
*Hapalophragmiopsis ponderosa* 3977
mycorrhizal fungi 4117
*Plasmodiophora brassicae* 8509
*Pseudoperonospora cubensis* 451
*Pyrenochaeta terrestris* 424

**Techniques** *cont.*
culture *cont.*
*Trichoderma viride* 4195
*Tuber magnatum* 1848
*Verticillium dahliae*, cocoa 3929
culture media
*Alternaria alternata* 5022
*Aspergillus* 3410
biological control agents 4174
*Cenococcum geophilum* 6472
*Colletotrichum graminicola* 6706
*Coniothyrium minitans* 6579
*Cryphonectria cubensis* 3136
*Discula destructiva* 3983
*Elsinoë fawcettii* 4671-4672
*Fusarium oxysporum* 5022
*Glomerella cingulata*, citrus 1604
*Kabatiella caulivora* 3670
mycorrhizal fungi 4138
*Mycosphaerella dearnessii* 5012
*Penicillium* 3410
*Pyrenochaeta terrestris* 5307
*Trichoderma harzianum* 1891
*Trichoderma viride* 6579
databases, herbaria 5777
detection
abutilon mosaic bigeminivirus 1941
*Acremonium*
*Festuca* 5984
Gramineae 8403
*Lolium perenne* 5984
*Acremonium coenophialum*, *Festuca arundinacea* 341
aflatoxins
groundnuts 3907
maize 4396
arabis mosaic nepovirus, grapes 3853
*Aspergillus*, groundnuts 7033
avocado virus 1, avocados 2273
bacteria 5, 4056, 8027
barley yellow dwarf luteovirus 1329
bean yellow mosaic potyvirus, *Gladiolus* 2412
beet necrotic yellow vein furovirus, sugarbeet 3087
*Botrytis cinerea*
black currants 6165
raspberries 6165
cacao swollen shoot badnavirus, cocoa 8714
cauliflower mosaic caulimovirus, vectors 5099
cherry leaf roll nepovirus, walnuts 5460
chrysanthemum stunt viroid, chrysanthemums 7961
citrus, yellow shoot 8654
citrus tristeza closterovirus, citrus 499, 6984-6985
*Clavibacter michiganensis* subsp. *michiganensis* 7693
*Clavibacter michiganensis* subsp. *sepedonicus* 7191
coconut foliar decay virus
coconuts 2319
vectors 2319
cucumber mosaic cucumovirus 8548
lupins 7584
tobacco 4239
*Curtobacterium flaccumfaciens* pv. *flaccumfaciens*, *Vigna radiata* 7625
*Cylindrocarpon heteronema*, apples 4616
cymbidium mosaic potexvirus 4246
enzymes, fungi 3425
*Erwinia amylovora* 7266
*Erwinia carotovora* subsp. *carotovora*, potatoes 408
*Erwinia chrysanthemi*, potatoes 4530
*Erwinia stewartii*, maize 5196
fungicide residues
soil 2469
*Vaccinium* 2979
water 5684
fungicide tolerance, *Pyricularia oryzae* 6729
*Gaeumannomyces graminis*
*Cynodon dactylon* 4283
rice 4283
*Stenotaphrum secundatum* 4283

**Techniques** *cont.*
detection *cont.*
*Gaeumannomyces graminis cont.*
wheat 4283
*Ganoderma*, coconuts 1099
garlic mosaic virus, garlic 6839
geminiviruses, crops 5810
*Glomerella cingulata*
cotton 7894
isolates 1929
grapevine fanleaf nepovirus 7409
grapevine stem pitting associated closterovirus
grapes 485, 3854
*Nicotiana benthamiana* 485
*Heterobasidion annosum*, *Picea abies* 7943
iris severe mosaic potyvirus, *Iris* 8816
*Leptosphaeria maculans*, rape 5463
*Leptosphaeria nodorum*, wheat 1375
luteoviruses 790
*Magnaporthe grisea*, rice 7543
mycoplasma-like organisms 213, 1068, 1348, 4265, 5106
apples 8234
cabbages 1955
*Catharanthus roseus* 1953, 2596, 8234
*Cuscuta campestris* 2596
insects 8235
ornamental plants 1955
*Trifolium repens* 8234
walnuts 1618
mycorrhizas
leeks 4159
*Platanus acerifolia* 4159
*Mycosphaerella fijiensis*, bananas 6978
*Mycosphaerella musicola*, bananas 6978
mycotoxins
cassava 7656
*Macrophomina phaseolina* 6024
wheat 856
papaya ringspot potyvirus, *Cucumis metulifera* 1031
pathogenesis-related proteins
bacteria 7425
oranges 7425
pathogens, germplasm 3416
pea seed-borne mosaic potyvirus, peas 1498, 5272
*Penicillium*, groundnuts 7033
pesticide residues 55
food 27
fruit 2451
vegetables 2451
*Picea abies*
damage 5550
decline 3160
*Pinus sylvestris*, damage 5550
plant pathogens 6573
plum pox potyvirus 5401
*Prunus* 7267
stone fruits 1056
potato leaf roll luteovirus, potatoes 6038, 7422
potato S carlavirus, potatoes 2155
potato spindle tuber viroid 5288
potatoes 2154, 5098, 6804
tomatoes 5098
potato Y potyvirus
potatoes 6038
tobacco 4239
*Pseudomonas syringae* pv. *persicae*, peaches 7761
*Pyrenophora graminea*, barley 1375
*Pythium ultimum* 8149
rice, yellow dwarf 3634
rice tungro bacilliform badnavirus
insects 8368
rice 8368
rickettsia-like organisms
cherries 2970
peaches 2970
weeds 2970
seedborne fungi, wheat 1989
strawberry mild yellow edge luteovirus, strawberries 7422

**Techniques** *cont.*
detection *cont.*
sugarcane Fiji disease fijivirus, sugarcane 1640
thiabendazole, water 5684
tobacco leaf curl bigeminivirus 1941
tobacco mosaic tobamovirus
aubergines 1009
*Capsicum* 1009
tobacco 794, 4239
tomatoes 1009
tobacco rattle tobravirus, tobacco 1334
tomato ringspot nepovirus
nectarines 4625, 5411
peaches 4625
plums 4625
tomato yellow leaf curl bigeminivirus 1941
insects 2190
tomatoes 2190
turnip mosaic potyvirus 3448
viroids, grapes 6178
viruses 792
apricots 2231
fruit trees 7269
marrows 1030
mushrooms 628
potatoes 2823, 6806, 7637
*Xanthomonas albilineans*, sugarcane 1112
*Xanthomonas campestris* pv. *citri*, citrus 505, 6212
*Xanthomonas campestris* pv. *undulosa*, cereals 828
*Xanthomonas campestris* pv. *vesicatoria*, tomatoes 7694
*Xanthomonas oryzae* pv. *oryzicola* 7562
rice 1464-1465, 3657
determination
cymoxanil 4950
ferbam 5691
fungicide residues 3284, 4954, 6432
apples 8105
cereals 4304, 6577
crops 6435
cucumbers 4953
fruit 6577, 7246
peas 4100
potatoes 8105
tomatoes 6416
watermelons 6416
wine 6577
*Ziziphus mauritiana* 4100
guazatine 7254
mannitol, mycorrhizal fungi 7292
oxine-copper, water 74
pesticide residues 3261
food 35
rain 4940
pesticides, drift 8064
thiabendazole, water 4233
thiram, fruit 6454
diagnosis
*Acer pseudoplatanus*, diseases 3979
*Agrobacterium tumefaciens* 3236
bacteria 5796
beet western yellows luteovirus, sugarbeet 1120
citrus, greening 4677
*Fusarium* 4229
mycoplasma-like organisms
coconuts 3063
fruit 1570
*Phytophthora citricola*, raspberries 2978
*Phytophthora fragariae* var. *rubi*, raspberries 2978
plant diseases 1315, 7387, 8182
potatoes, storage decay 1364
*Pseudocercosporella herpotrichoides* 4229
*Rhizoctonia cerealis* 4229
vegetables, storage decay 1364
viroids 5053, 5796
fruit 1570
viruses 2570, 5053, 5796
fruit 1570
sweet potatoes 1530

**Techniques** *cont.*
differentiation
blackeye cowpea mosaic potyvirus, serotypes 4500
*Ceratocystis fimbriata* f.sp. *platani*, strains 4823
citrus tristeza closterovirus, isolates 3012
*Clavibacter michiganensis*, subspecies 7191
*Cochliobolus carbonum*, races 5924
*Colletotrichum graminicola*, isolates 309
cowpea aphid-borne mosaic potyvirus, serotypes 4500
cucumber mosaic cucumovirus, isolates 807
*Erwinia carotovora* subsp. *carotovora* 6399
*Erwinia chrysanthemi* 6399
*Fusarium*, species 3424
*Fusarium oxysporum* f.sp. *vasinfectum*, races 4777
*Glomerella cingulata*
isolates 1929, 6974
strains 1604
*Leptosphaeria maculans*, pathotypes 5463
maize dwarf mosaic potyvirus, strains 3447
*Phytophthora*, species 5011
*Phytophthora megasperma* f.sp. *glycinea*, isolates 363
potyviruses 5097
*Pseudocercosporella herpotrichoides*
isolates 1377
pathotypes 823
*Pseudomonas syringae*, pathovars 664
*Rhizoctonia solani*, anastomosis groups 1888, 2543
tobacco mosaic tobamovirus, serotypes 1325
*Uromyces appendiculatus*, races 4479
*Verticillium*, species 1292
*Verticillium dahliae* 7391
*Xanthomonas campestris* pv. *vesicatoria*, strains 433
*Xanthomonas oryzae* pv. *oryzae*, strains 7200
disposal, pesticides 65
DNA fingerprinting, *Mycosphaerella graminicola* 6670
dye labelling, trees, biological control 580
electrophoresis, *Phytophthora* 8176
electroporation, *Xanthomonas campestris* pv. *citri* 1218
elimination
banana bunchy top virus, bananas 5432
citrus, viruses 1600
crops, viruses 8180-8181
cymbidium mosaic potexvirus
*Dendrobium* 622
*Mokara* 8817
grapes
mycoplasma-like organisms 483
viruses 1593, 2248, 7779
grapevine fanleaf nepovirus, grapes 4643
groundnuts, viruses 7027
lemons
viroids 4663
viruses 4663
odontoglossum ringspot tobamovirus
*Cymbidium* 7971
*Dendrobium* 622
*Mokara* 8817
pea seed-borne mosaic potyvirus, peas 5269
peanut mottle potyvirus, groundnuts 8681
peanut stripe potyvirus, groundnuts 8681
pome fruits, viruses 1571
potato leaf roll luteovirus, potatoes 7635
potatoes, viruses 4516
shallots, viruses 2173
stone fruits, viruses 1584
strawberries, viruses 6170

**Techniques** *cont.*
elimination *cont.*
sugarcane, pathogens 3075
sweet potato leaf curl badnavirus, sweet potatoes 6834
sweet potatoes, viruses 3739
*Xylella fastidiosa*, grapes 6194
estimation
*Albugo candida*, *Brassica* 4554
*Albugo occidentalis*, spinach 2872
*Alternaria solani*, potatoes 2165
biomass, mycorrhizal fungi 7286
chlorosis, spinach 2872
deposition, pesticides 675
*Erwinia carotovora* subsp. *carotovora*, soil 1210
fungi
roots 3423
soil 8166
*Heterobasidion annosum*
*Pinus elliottii* 4838
*Pinus sylvestris* 4833
*Pinus taeda* 4838
*Humicola lanuginosa*, rice 1460
*Leptosphaeria maculans*, rape 6232
*Monographella maydis*, maize 1425
mycorrhizal fungi, roots 6496
mycorrhizas, crops 2513
pesticide residues
fruit 2450
vegetables 2450
pesticides
occupational hazards 8054
transformation 1802
volatilization 5665, 8085
*Phyllachora maydis*, maize 1425
phytoalexins 3958
plant diseases, errors 4234
*Pseudomonas syringae* 3250
*Pyricularia oryzae*, spores 5208
*Pythium oligandrum*, soil 3386
relative humidity 8185
*Sarocladium oryzae*, rice 4437
*Sclerospora graminicola*, *Pennisetum americanum* 5200
*Synchytrium endobioticum*, potatoes 2842
*Verticillium dahliae*, soil 4209
wheat, diseases 8282
evaluation
*Botrytis allii*, metabolism 5798
*Botrytis cinerea*, metabolism 5798
disinfectants, viruses 789
fungicides, *Pyricularia oryzae* 4425
interactions, soil fungi 121
experimental design, *Botrytis cinerea*, grapes 1072
expert systems
bacteria, identification 5643
crops, diseases 135
tomatoes, disorders 8569
extraction
aflatoxins, maize 8354
mycorrhizal fungi, sand 7300
fluorescence microscopy, *Catharanthus roseus*, mycoplasma-like organisms 1350
forecasting
apples, storage disorders 6929
barley, diseases 137, 238
*Blumeriella jaapii*, cherries 6161
*Botryosphaeria dothidea*, apples 4613
*Botrytis cinerea*
ornamental plants 3168
strawberries 7772
*Botrytis fabae*, faba beans 4473
cereals, diseases 138, 235, 239
*Colletotrichum acutatum*, strawberries 7772
crops, diseases 133-134, 3417, 8189, 8239-8240
*Erwinia amylovora*
apples 1572
pears 1572
pome fruits 2935
*Gibberella zeae*, wheat 277
grapes, diseases 225
maize rayado fino marafivirus, maize 7497
*Mycosphaerella musicola*, bananas 3008

**Techniques** *cont.*
forecasting *cont.*
*Peronospora*, hops 4889
*Phomopsis*, sunflowers 3050
*Phytophthora arecae*, arecanuts 3043
*Phytophthora cactorum*, strawberries 7772
*Phytophthora infestans*, potatoes 137, 1510, 3717, 3719
plant diseases 132, 782-783, 2558, 2613
plant protection 1926
*Plasmopara viticola*, grapes 2989
potato leaf roll luteovirus, potatoes 6037
potato Y potyvirus, potatoes 6037
*Pseudocercosporella herpotrichoides*, wheat 7478
*Pseudoperonospora cubensis*, cucumbers 1563
*Pseudoperonospora humuli*, hops 4888
*Puccinia allii*, *Allium fistulosum* 2174
*Puccinia polysora*, maize 5917
*Puccinia recondita*, wheat 225, 4326, 5863
*Puccinia sorghi*, maize 5917
*Puccinia striiformis*, wheat 5146, 5865, 8298
*Pyricularia oryzae*, rice 1452, 2741, 5220
*Rhizoctonia solani*, rice 2083, 6737
*Sclerotinia sclerotiorum*, rape 517, 8670
*Septoria*, wheat 7475
*Stemphylium vesicarium*, pears 2966
sugarbeet, diseases 1114
*Tilletia indica*, wheat 2009
tomatoes, diseases 8562
*Uncinula necator*, grapes 2989
*Venturia inaequalis*, apples 2944, 2952
wheat, diseases 137, 238, 1380-1381, 8269
*Xanthomonas oryzae* pv. *oryzicola*, rice 7561
formulation, biological control agents 3208, 4484
genetic analysis
*Botrytis cinerea* 5745
brome mosaic bromovirus 6586
*Ustilago segetum* 8184
genetic engineering
biological control agents 6458
plant pathology 6571
genetic transformation
*Fusarium culmorum* 3378
*Phytophthora* 7390
*Pseudomonas syringae* pv. *syringae* 671
*Uromyces appendiculatus* 368
identification
bacteria 4056, 5643, 6393, 7183
chrysanthemum stunt viroid, chrysanthemums 3181
*Fusarium* 1908
*Gaeumannomyces graminis* 1931
*Gaeumannomyces graminis* var. *graminis*, grasses 5982
grapevine chrome mosaic nepovirus 6958
mycorrhizal fungi 6574
*Ophiosphaerella herpotricha*, *Cynodon dactylon* 3999
*Phialophora* 1931
*Phytophthora*, species 810
*Plasmopara halstedii*, races 524
potato Y potyvirus, potatoes 1506
*Pythium*, species 1917
*Rhodococcus fascians* 4870
tomato black ring nepovirus 6958
Uredinales 6574
*Uromyces appendiculatus*, *Phaseolus vulgaris* 5263
*Ustilago segetum*, mating types 864
wood destroying fungi 1689
immunoassay, pesticide residues 58, 8074
immunocytochemistry, pea seed-borne mosaic potyvirus, peas 1498

**Techniques** *cont.*
immunodiagnosis
*Acremonium coenophialum*, *Festuca arundinacea* 5980
*Acremonium obclavatum*, groundnuts 6252
*Agrobacterium tumefaciens*, grapes 7786
arabis mosaic nepovirus 5078
raspberries 1589
banana bunchy top virus, bananas 8642-8643
barley yellow dwarf luteovirus, cereals 1373
bean yellow mosaic potyvirus, faba beans 6002
beet necrotic yellow vein furovirus, sugarbeet 5488
beet soil-borne furovirus 1117
beet western yellows luteovirus, *Physalis floridana* 5817
beet yellows closterovirus, sugarbeet 3088
blackeye cowpea mosaic potyvirus, cowpeas 4500
*Botrytis cinerea*, *Gerbera* 6343
broad bean stain comovirus
Leguminosae 4279
*Trifolium* 4279
*Clavibacter michiganensis* subsp. *sepedonicus*, potatoes 8496
*Clavibacter xyli* subsp. *xyli*, sugarcane 7045
cowpea aphid-borne mosaic potyvirus, cowpeas 4500
cucumber mosaic cucumovirus, Cucurbitaceae 5362
daphne X potexvirus, *Daphne cneorum* 3994
*Erwinia carotovora* subsp. *atroseptica*, potatoes 1519
freesia mosaic potyvirus 5583
fungi 1932
*Fusarium solani*, groundnuts 6252
*Gliocladium roseum* 1690
grapevine fanleaf nepovirus
*Chenopodium quinoa* 5066
grapes 6959
grapevine stem pitting associated closterovirus, grapes 2580
*Leptosphaeria nodorum*, wheat 7476, 8310
lettuce mosaic potyvirus
lettuces 4559
*Sinapis arvensis* 4559
*Magnaporthe grisea*, rice 332
maize streak monogeminivirus, insects 878
melon necrotic spot carmovirus, melons 7708
mycoplasma-like organisms 2565
chrysanthemums 4862
*Mycosphaerella graminicola*, wheat 7476, 8310
*Myrothecium verrucaria*, groundnuts 6252
pea seed-borne mosaic potyvirus, peas 949
*Phomopsis longicolla*, soyabeans 2783
*Phomopsis phaseoli*, soyabeans 2783
*Phytophthora* 140, 3421
*Phytophthora nicotianae* var. *nicotianae*, tomatoes 1012
plant pathogens 5797, 6573
potato A potyvirus 1656
potato leaf roll luteovirus, potatoes 1504, 6038, 8477
potato spindle tuber viroid, tomatoes 2887
potato X potexvirus, potatoes 2828
potato Y potyvirus, potatoes 1504, 6038
potyviruses 198, 200-201, 808-809
prune dwarf ilarvirus
cherries 6140
peaches 6140
plums 6140
prunus necrotic ringspot ilarvirus 5598
cherries 5408

**Techniques** *cont.*
immunodiagnosis *cont.*
*Pseudocercosporella herpotrichoides*
cereals 5848, 7446
wheat 8318
red clover mottle comovirus
Leguminosae 4279
*Trifolium* 4279
*Rhizoctonia solani* 6576
rice stripe tenuivirus, *Laodelphax striatella* 8367
*Sclerospora graminicola, Pennisetum americanum* 5200
snow moulds, wheat 279
soil-borne wheat mosaic furovirus, wheat 6637
southern bean mosaic sobemovirus 1336
soybean dwarf luteovirus, *Trifolium repens* 6756
soybean mosaic potyvirus, soyabeans 2779
*Spongospora subterranea*, potatoes 4527
stain fungi 1690
strawberry latent ringspot nepovirus, olives 3900
tobacco mosaic tobamovirus 1656
tobacco streak ilarvirus
endives 421
lettuces 421
raspberries 6140
tobacco vein mottling potyvirus, tobacco 8729
tomato black ring nepovirus, raspberries 1589
tomato ringspot nepovirus, nectarines 5411
tomato spotted wilt tospovirus 8208
*Verticillium dahliae* 7391
viruses 2565, 8194
grapes 484, 2250
potatoes 2826, 8475
rice 7532
wild plants 8840
*Xanthomonas oryzae* pv. *oryzae*, rice 8391
*in vitro* selection, lucerne, *Fusarium oxysporum* 7581
information systems, plant diseases 782
inoculation
*Capsicum*, pepper hausteco virus 8575
cassava, *Colletotrichum gloeosporioides* f.sp. *manihotis* 6833
celery, *Septoria apiicola* 2183
citrus
*Oidium tingitaninum* 1602
*Xanthomonas campestris* 507
cocoa, *Crinipellis perniciosa* 4738
cotton
*Colletotrichum gossypii* 571
*Colletotrichum gossypii* var. *cephalosporioides* 571
cowpeas
*Colletotrichum lindemuthianum* 967
*Colletotrichum truncatum* 967
*Macrophomina phaseolina* 2814
*Eucalytus camaldulensis, Gigaspora margarita* 93
grapes, *Xanthomonas campestris* pv. *viticola* 1596
maize
*Aspergillus flavus* 889
*Pythium aphanidermatum* 2063
*Ustilago zeae* 302
mycorrhizal fungi 90, 4161
oil palms, *Ganoderma* 2317
*Phaseolus vulgaris, Xanthomonas campestris* pv. *phaseoli* 370
*Pinus banksiana, Endocronartium harknessii* 6311
*Plasmopara halstedii*, sunflowers 522
potatoes
potato X potexvirus 4515
potato Y potyvirus 4515
*Quercus rubra, Phytophthora cinnamomi* 2385

**Techniques** *cont.*
inoculation *cont.*
rape
*Leptosphaeria maculans* 4701
*Pseudocercosporella capsellae* 4701
raspberries, *Phytophthora* 7762
rice
*Magnaporthe grisea* 4421
*Sarocladium oryzae* 8383
soil, *Rhizoctonia solani* 6575
tomatoes, *Pseudomonas viridiflava* 6873
*Trifolium pratense, Kabatiella caulivora* 3670
watermelons, *Fusarium oxysporum* f.sp. *niveum* 3795
weeds, *Pseudomonas viridiflava* 6873
wheat, *Gibberella zeae* 3555
*Ziziphus sativus*, mycoplasma-like organisms 627
isolation
cytochrome P-450, *Ustilago zeae* 2560
elicitors, *Puccinia graminis* 154
*Fusarium*, pasture plants 2088
*Gliocladium virens*, soil 8169
*Glomerella cingulata*, citrus 1604
haustoria
*Puccinia graminis* 2654
Uredinales 1291
mycorrhizal fungi, soil 6495
*Peronosclerospora sorghi*, sorghum 313
phytoalexins, soyabeans 2110
*Phytophthora citricola*, raspberries 2978
*Phytophthora clandestina, Trifolium subterraneum* 8421
*Phytophthora fragariae* var. *rubi*, raspberries 2978
*Polymyxa graminis*, barley 8335
*Pythium*, soil 123
rice tungro bacilliform badnavirus, rice 3637
rice tungro spherical ribotungrovirus, rice 3637
urediospores, *Puccinia hordei* 3420
measurement, fungi 141
micropropagation, aubergines, little leaf 4589
models
acid deposition
forest trees 3148
*Picea rubens* 3162
*Alternaria cucumerina*, melons 452, 1033
*Alternaria macrospora*, cotton 573
*Alternaria mali*, apples 2226
barley, diseases 137, 2032
barley yellow dwarf luteovirus, cereals 4299
beet western yellows luteovirus, sugarbeet 1116
beet yellows closterovirus, sugarbeet 1116
*Blumeriella jaapii*, cherries 6161
*Botryosphaeria dothidea*, apples 4613
*Botrytis cinerea*
grapes 1072
strawberries 7772
cereals, diseases 138, 236-237, 239-240
*Colletotrichum acutatum*, strawberries 7772
crops, diseases 134-135
1,3-dichloropropene, air 4102
*Erwinia amylovora*, apples 8614
*Erwinia herbicola*, antifungal agents 1785
*Erysiphe graminis*, population dynamics 4368
forests, decline 8765
fungicide residues, groundnuts 7029
fungicide tolerance 3287
fungicides, sprays 6443
*Glomerella cingulata*
citrus 6988
*Stylosanthes scabra* 2097
*Mycosphaerella berkeleyi*, groundnuts 8692

**Techniques** *cont.*
models *cont.*
*Mycosphaerella graminicola*, wheat 2676
*Mycosphaerella musae*, bananas 6199
*Mycosphaerella musicola*, bananas 6199
pesticides
activity 4943
degradation 4945
deposition 29, 4093
environmental impact 1804-1805, 1807, 1827
exposure 3272
groundwater 3267
nontarget effects 3300
residues 1809
retention 41
risk 1803
risk assessment 38-39
run off 1808, 1810
soil 84, 5671
structure activity relationships 4944
uptake 44, 6429
volatilization 7210
*Phakopsora pachyrhizi*, soyabeans 4468
*Phellinus noxius, Hevea brasiliensis* 5521, 7902
*Phytophthora cactorum*, strawberries 7772
*Phytophthora infestans*, potatoes 137, 1510, 3719, 7647
*Phytophthora nicotianae* var. *parasitica*
grapefruits 7798
soil 7798
plant diseases 142, 783, 1928, 1930, 2558
epidemiology 1927, 5521
plant pathology 8179
plant protection 1926
potato leaf roll luteovirus, potatoes 6037
potato Y potyvirus, potatoes 393, 6037
*Pseudomonas syringae, Phaseolus vulgaris* 6009
*Pseudoperonospora humuli*, hops 4888
*Puccinia hordei*, barley 2031
*Puccinia recondita*, wheat 4326, 5863
*Puccinia striiformis*, wheat 5146, 5865, 8298
*Pyricularia oryzae*, rice 1452, 2741, 5956, 6731
*Rhizoctonia solani*, rice 2083, 6737
*Rhynchosporium secalis*, barley 2031
rice dwarf phytoreovirus, rice 2569
rice tungro virus, rice 8365
*Rigidoporus lignosus, Hevea brasiliensis* 5521, 7902
*Sclerotinia sclerotiorum*, rape 517
*Septoria*, wheat 7475
soil, viruses 786
soybean mosaic potyvirus, soyabeans 8426
spore dispersal 2244
*Stemphylium vesicarium*, pears 2966
*Thanatephorus cucumeris*, rice 5956
tomatoes, disorders 8569
*Venturia inaequalis*, apples 2944, 2952, 7737
*Verticillium dahliae*
cotton 3117
potatoes 1513
wheat
diseases 137, 1380-1381, 5853
yield losses 7452
*Xanthomonas campestris* pv. *citri*, citrus 506
*Xanthomonas campestris* pv. *phaseoli, Phaseolus vulgaris* 1495
*Xanthomonas oryzae* pv. *oryzae*, rice 2085
molecular genetics, fungi 131
monitoring
*Cochliobolus miyabeanus*, spore dispersal 335
fungicide tolerance 7240

**Techniques** *cont.*
observation
turnip yellow mosaic tymovirus, decapsidation 5057
*Ustilago*, spore germination 2539
photography, pesticides, application 7213
polymerase chain reaction, fungi 7392
preparation, benomyl, solutions 79
preservation
*Albugo candida* 1316
fungi 3415
*Fusarium* 4235
sporangia, *Plasmopara halstedii* 4232
*Tranzschelia pruni-spinosae*, plums 6159
urediospores, *Puccinia* 3422
*Uromyces appendiculatus*, *Phaseolus vulgaris* 5263
viruses 8201
*Xanthomonas campestris*, cabbages 1001
production
antibodies, potato Y potyvirus 5100
ascospores, *Leptosphaeria maculans* 7015
basidia, *Corticium rolfsii* 1297
biological control agents 146, 5799, 6369, 6579
conidia
*Alternaria cassiae* 8187
*Discula destructiva* 3983
*Pyrenopeziza brassicae* 6848
*Trichoderma hamatum* 6578
*Trichoderma harzianum* 6578, 8186
enzymes, *Trichoderma harzianum* 8186
*Gigaspora margarita*, inoculum 2521
*Glomus etunicatum*, inoculum 2521
*Glomus mosseae*, inoculum 2521
homokaryons, *Rhizoctonia solani* 5028
immune serum
cucumber mosaic cucumovirus 173
mycoplasma-like organisms 5836
inoculum
*Colletotrichum truncatum* 8164
mycorrhizal fungi 3333, 3343, 7287
*Pythium* 7389
monoclonal antibodies
banana bract mosaic virus 5433
*Botrytis cinerea* 6343
*Colletotrichum* 3426
*Fusarium oxysporum* 6527
*Magnaporthe grisea* 332, 7543
mycoplasma-like organisms 8502
potato leaf roll luteovirus 4254
potato mop-top furovirus 8484
potato X potexvirus 7400
raspberry ringspot nepovirus 7400
*Xanthomonas oryzae* pv. *oryzae* 7200
perithecia, *Guignardia bidwellii* 2256
phytoalexins 4231
protoplasts
*Claviceps paspali* 5763
*Claviceps purpurea* 5763
*Cryphonectria parasitica* 4695
*Fusarium culmorum* 3378
*Phytophthora sojae* 4470
*Pyricularia oryzae* 5221
pycnidiospores
*Stenocarpella macrospora* 5923
*Stenocarpella maydis* 5923
spheroplasts, *Phytophthora sojae* 4470
sporangia, *Phytophthora nicotianae* var. *parasitica* 4582
protoplast fusion, *Trichoderma* 6572
purification
apple chlorotic leafspot virus, *Chenopodium quinoa* 1347
barley yellow dwarf luteovirus, cereals 1371
enzymes
*Erwinia chrysanthemi* 4401
*Trichoderma harzianum* 5001
plasmids, *Agrobacterium* 7184

**Techniques** *cont.*
purification *cont.*
potato leaf roll luteovirus, potatoes 8477
potato mop-top furovirus 8484
rice bunchy stunt virus, rice 3435
strawberry mottle virus, strawberries 2980
remote sensing
*Acer saccharum*, decline 3143
crops, diseases 7424
*Fagus sylvatica*, decline 4807
forest trees, decline 8747
*Fusarium oxysporum* f.sp. *vasinfectum*, cotton 3949
*Pinus sylvestris*, damage 8797
*Verticillium dahliae*, cotton 572, 3949
sampling
air spora 148
cereals, storage decay 3492
*Pyricularia oryzae*, rice 5943
rice tungro virus, rice 5943
*Xanthomonas campestris* pv. *citri*, citrus 504
scanning electron microscopy, *Aspergillus flavus* 130
screening
almonds, *Phytophthora cambivora* 1086
antagonists
*Plasmodiophora brassicae* 745
*Pyrenophora teres* 286
*Pythium* 104
antiviral agents 7053
asparagus
*Phytophthora cryptogea* 431
*Phytophthora megasperma* var. *sojae* 431
biological control agents 147
*Capsicum*
cucumber mosaic cucumovirus 6880
pepper mild mottle tobamovirus 6881
*Pseudomonas solanacearum* 6127
chickpeas, *Corticium rolfsii* 7619
cowpeas, *Phytophthora vignae* 6802
*Cryphonectria parasitica*, hypovirulence 3041
Cucurbitaceae, *Colletotrichum magna* 446
fungicides 6943
grapes, *Botrytis cinerea* 6185-6186
*Lilium*, *Fusarium oxysporum* f.sp. *lilii* 7968
marrows, *Sphaerotheca fuliginea* 8601
melons, *Acremonium* 8590
mycorrhizal fungi, Fagaceae 4129
*Phaseolus vulgaris*
bean common mosaic potyvirus 2117
*Pseudomonas syringae* pv. *phaseolicola* 2117
*Sclerotinia sclerotiorum* 3684
potatoes
*Alternaria solani* 2164
potato X potexvirus 4515
potato Y potyvirus 4515
*Pyrenopeziza brassicae*, mutants 4702
rice
*Pyricularia oryzae* 4417
*Xanthomonas oryzae* 5973
sugarbeet, *Bipolaris sacchari* 539
*Ulmus pumila*, *Botryodiplodia hypodermia* 8777
*Venturia inaequalis*, apples 2946
seed testing
cowpeas, *Xanthomonas campestris* pv. *vignicola* 3710
lupins 7584
soyabeans, *Phoma medicaginis* var. *sojae* 5997
*Vigna radiata*, *Xanthomonas campestris* pv. *vignaeradiatae* 3710
*Xanthomonas oryzae* pv. *oryzicola*, rice 923
seed treatment, asparagus 8535
selection
antagonists, *Corticium rolfsii* 337
*Brassica*, *Alternaria brassicae* 6231

**Techniques** *cont.*
selection *cont.*
carnations, *Fusarium oxysporum* f.sp. *dianthi* 8813
crops, diseases 8246
lucerne, *Fusarium oxysporum* f.sp. *medicaginis* 8415
mycorrhizal fungi 3327
oats, barley yellow dwarf luteovirus 8337
rape, *Alternaria brassicae* 6231
sugarbeet, beet necrotic yellow vein furovirus 8709
wheat
*Leptosphaeria nodorum* 2675
*Mycosphaerella graminicola* 2673
separation, *Phytophthora*, chromosomes 731
spore germination, mycorrhizal fungi 727
sporulation
*Elsinoë australis* 6996
*Elsinoë fawcettii* 6996
*Leptosphaeria maculans* 7015
spraying
apples 4581
cereals 4111
fruit trees 2942
potatoes 6820
staining
basidiospores, mycorrhizal fungi 4134
conidia
*Alternaria cassiae* 4236
*Alternaria crassa* 4236
Ericaceae, mycorrhizas 1867
liverworts, mycorrhizas 1867
storage
mycorrhizal fungi 4161
pangola stunt fijivirus, RNA 805
sugarcane Fiji disease fijivirus, RNA 805
wood destroying fungi 781, 1691
testing
*Amelanchier alnifolia*, *Gymnosporangium nelsonii* 3000
apricots, plum pox potyvirus 2235
avocados, *Phytophthora cinnamomi* 2286
barley
*Cochliobolus sativus* 2700
fungi 7483
*Fusarium culmorum* 7442
*Fusarium roseum* 7442
*Gibberella zeae* 7442
*Puccinia graminis* 7487
*Capsicum*, *Verticillium dahliae* 6122
carrots
*Erwinia carotovora* subsp. *atroseptica* 8498
*Erwinia carotovora* subsp. *carotovora* 8498
cherries
*Pseudomonas syringae* pv. *morsprunorum* 1059
*Pseudomonas syringae* pv. *syringae* 4624
cocoa, *Crinipellis perniciosa* 4739
cowpeas
*Colletotrichum lindemuthianum* 967
*Colletotrichum truncatum* 967
cucumbers, *Didymella bryoniae* 7710
*Fraxinus*, *Pseudomonas syringae* pv. *savastanoi* 1156
grapes
*Agrobacterium tumefaciens* 8636
viruses 2250
groundnuts, *Sclerotinia minor* 8689
lucerne, *Fusarium* 780
maize
*Cercospora zeae-maydis* 7508
*Gibberella zeae* 5921
*Setosphaeria turcica* 7504
melons, *Sphaerotheca fuliginea* 5365, 6891
*Mycosphaerella brassicicola*, cabbages 7665
oil palms, *Fusarium oxysporum* f.sp. *elaeidis* 7021
*Phaseolus lunatus*, *Rhizoctonia solani* 5240

**Techniques** *cont.*
testing *cont.*
*Phaseolus vulgaris, Rhizoctonia solani* 5240
pome fruits, viruses 1571
*Populus, Xanthomonas populi* subsp. *populi* 1154, 7921
potatoes, potato X potexvirus 8480
rice
*Magnaporthe grisea* 4421
*Pyricularia oryzae* 6735
*Sarocladium oryzae* 4439
rye, *Monographella nivalis* 7494
soyabeans
*Fusarium solani* 4465
*Rhizoctonia solani* 5240
sugarcane
*Xanthomonas albilineans* 4724
*Xanthomonas campestris* pv. *vasculorum* 7043
tomatoes, *Clavibacter michiganensis* subsp. *michiganensis* 1014
*Trifolium, Fusarium* 780
*Uncinula necator*, fungicide tolerance 7783
watermelons
*Fusarium oxysporum* f.sp. *niveum* 3795
papaya ringspot (type W) potyvirus 444
wheat
*Coprinus psychromorbidus* 2022
*Erysiphe graminis* 6657
*Fusarium* 780
*Fusarium culmorum* 7442
*Fusarium roseum* 7442
*Gibberella zeae* 1401, 3555, 7442
*Urocystis agropyri* 8304
thermography, *Acer pseudoplatanus*, diseases 3979
tissue culture
plant diseases 6580
sweet potatoes, viruses 3739
wheat, *Cochliobolus sativus* 2019
transport, specimens, plant diseases 1317
trapping, soybean mosaic potyvirus, vectors 354
***Tecoma stans,*** *Pseudocercospora sordida*, West Bengal 751
***Tectacervulus mahoniae***
*Mahonia repens*
Colorado 1177
taxonomy 1177
***Tectona grandis***
*Fusarium solani*
Kerala 4796
transmission 4796
**Tefluthrin,** seed treatment, wheat 3516
***Telanthera ficoidea,*** plant extracts, antiviral agents 7057
**Telone** (*see* 1,3-dichloropropene)
**Temik** (*see* Aldicarb)
***Tephrosia candida,*** *Glomerella cingulata*, Assam 3400
***Tephrosia villosa,*** *Pseudocercospora tephrosiae*, Andhra Pradesh 3674
***Teratosperma oligocladium,*** antagonism, *Sclerotinia sclerotiorum* 1872
***Teratosperma sclerotivora,*** control, *Sclerotinia minor*, lettuces 2875
***Terfezia arenaria***
Algeria 6503
spore germination 6503
***Terminalia ivorensis***
*Gibberella fujikuroi*
fruit 4819
Nigeria 4819
*Humicola*
fruit 4819
Nigeria 4819
***Tessaratoma papillosa,*** transmission, longans, witches' brooms 8657
**Tetrachlorodecaoxide,** activity, *Pseudomonas fluorescens* 4816
**Tetraconazole**
activity, *Ustilago zeae* 2538
control
*Podosphaera leucotricha*, apples 6915
*Puccinia striiformis*, barley 7486
*Uncinula necator*, grapes 6966
*Venturia inaequalis*, apples 6915
**Tetraconazole** *cont.*
development 7242
**Tetracycline**
control
citrus, yellow shoot 1079
*Ulocladium chartarum*
apples 2962
pawpaws 2962
*Xanthomonas campestris* pv. *phaseoli, Phaseolus vulgaris* 369
***Tetragonia tetragonioides***
beet necrotic yellow vein furovirus
gene expression 1346
symptoms 1346
**Thailand**
cowpeas, *Xanthomonas campestris* 939
*Croton sublyratus*
bacteria 7147
*Fusarium* 7147
*Cynodon dactylon*, mycoplasma-like organisms 5836
maize, aflatoxins 4397
soyabeans, *Xanthomonas campestris* 939
sugarcane
mycoplasma-like organisms 5836
white leaf 5107
*Vigna radiata, Xanthomonas campestris* 939
***Thanatephorus cucumeris***
groundnuts
spread 5475
survival 5475
*Hevea brasiliensis*, Sri Lanka 6284
rice
control 5956
crop growth stage 5956
models 5956
varietal reactions 2734
*Vigna radiata*, plant extracts 2813
***Thanatephorus sasakii***
laboratory tests, Agricultural Antibiotic 120 8122
rice
China 324
resistance 324
***Thea sinensis*** (*see* Tea)
***Thecaphora viciae-amoenae,*** *Vicia amoena*, China 5785
***Thelephora terrestis,*** *Pseudotsuga menziesii*, mycorrhizas 89
***Thelephora terrestris***
*Picea mariana*, mycorrhizas 8126
*Pinus banksiana*, mycorrhizas 8126
*Pinus patula*, mycorrhizas 6475
*Pseudotsuga menziesii*, mycorrhizas 695
***Themeda triandra,*** mycorrhizas, Korea Republic 7303
***Theobroma cacao*** (*see* Cocoa)
***Thevetia,*** plant extracts, antifungal agents 2813
***Thevetia peruviana,*** plant extracts, antifungal agents 6462
**Thiabendazole**
activity
*Macrophomina phaseolina* 111
*Thielaviopsis basicola*
soil 6273
tobacco 6273
control
*Aspergillus parasiticus*, tobacco 7887
chickpeas, seedborne fungi 2807
*Cochliobolus sativus*, wheat 4310
*Fusarium*, wheat 4310
*Gibberella fujikuroi* var. *subglutinans, Pinus taeda* 4839
*Gibberella zeae*, wheat 855
*Helminthosporium solani*, potatoes 6046
*Leptosphaeria maculans*, rape 518
maize, storage decay 7500
mangoes, postharvest decay 8656
onions, storage decay 2860
*Phoma exigua*, potatoes 1514
potatoes
diseases 2832
storage decay 1502, 1508
*Pyrenophora graminea*, barley 2041
*Rhizoctonia solani*, potatoes 3723
rice, diseases 7535
*Ustilago segetum* var. *tritici*, wheat 2010
**Thiabendazole** *cont.*
determination 4233
fungicide residues
determination 8105
oranges 8653
water 5684
fungicide tolerance
*Fusarium culmorum*, potatoes 2162
*Fusarium solani* var. *coeruleum* 984
*Gibberella cyanogena*, potatoes 2162
*Polyscytalum pustulans* 984
phytotoxicity, maize 4399
seed treatment
lentils 7618
maize 4399
peas 7614
wheat 6651
**Thiadiazoles**
activity
*Aspergillus niger* 4096
*Cochliobolus miyabeanus* 4096
**Thiadiazolines,** activity, *Pseudoperonospora cubensis*, cucumbers 3801
**Thiazoles**
activity
*Cephalosporium sacchari* 1816
*Cochliobolus miyabeanus* 1816
antifungal properties 2467
**Thiazolidinones**
activity
*Aspergillus flavus* 80
*Fusarium solani* 80
***Thielaviopsis basicola***
biochemistry, polysaccharides 1295
carrots
British Columbia 6064
temperature 6064
wounding 6064
chickpeas
soil density 376
soil water 2808
chicory
infection 2877
symptoms 7672
ultrastructure 2877
cotton
biological control 2484
control 1133-1134
cover crops 7074
edaphic factors 2354
seeds 1133-1134
USA 1133
flax, continuous cropping 5239
groundnuts, seed treatment 530
laboratory tests
metal ions 8148
silver 8148
peas, Netherlands 6792
soil
control 6273
edaphic factors 2354
tobacco
breeding 7061
control 6273
enzymes 723
pathogenesis-related proteins 8140
soil treatment 5507
***Thielaviopsis paradoxa*** (*see Ceratocystis paradoxa*)
**Thifluzamide,** development 7242
***Thinopyrum ponticum*** (*see Elymus elongatus*)
**2-(Thiocyanomethylthio)benzothiazole**
control
*Pythium*
lettuces 7251
ornamental plants 7251
tomatoes 7251
**Thiolcarbamate,** fungicidal properties 1245
**Thiophanate,** control, *Sclerotinia sclerotiorum*, sunflowers 3897
**Thiophanate-methyl**
activity
*Koleroga noxia* 7866
soil 88
control
*Botryodiplodia theobromae*, guavas 1615
*Botrytis cinerea*, tomatoes 6099
*Camptomeris albizziae, Albizia lebbek* 8780

**Thiophanate-methyl** *cont.*
control *cont.*
*Cochliobolus miyabeanus*, rice 2736
*Colletotrichum orbiculare*, watermelons 1035
*Corticium rolfsii*, potatoes 7650
*Erysiphe cruciferarum*, Indian mustard 3756
*Erysiphe polygoni*, *Vigna mungo* 5281
*Fusarium culmorum*, wheat 2682
*Gibberella fujikuroi*, rice 2736, 4432
*Glomerella cingulata*, guavas 1615
grapes, storage decay 2988
kiwifruits, postharvest decay 1597
lettuces, ring necrosis 7666
*Leucostoma*, apples 1578
*Magnaporthe grisea*, *Stenotaphrum secundatum* 1726
*Microcyclus ulei*, *Hevea* 579
*Mycosphaerella cruenta*, *Vigna mungo* 5281
*Myrothecium verrucaria*, *Capsicum* 1558
oranges, storage decay 6205-6206
*Pestalotiopsis psidii*, guavas 1615
*Phaseolus vulgaris*, diseases 5261
*Pyricularia oryzae*, rice 3644
*Rhizoctonia solani*, *Brassica* 6081
*Sclerotinia sclerotiorum*, cucumbers 6134
*Sphaerotheca pannosa*, peaches 4629
*Ustulina deusta*, *Hevea brasiliensis* 2368
*Verticillium dahliae*, *Capsicum* 441
fungicide residues, health hazards 6436
fungicide tolerance, *Botrytis cinerea* 6190
seed treatment
crops 4099
*Eucalyptus tereticornis* 6292
rice 2736
sugarcane 3083
*Vigna radiata* 2816
wheat 6651, 7456
soil treatment 2816
**Thiosemicarbazides**
activity
*Aspergillus niger* 4096
*Cochliobolus miyabeanus* 4096
**Thiram**
activity
*Alternaria alternata* 686
cucumbers 7673
*Leucaena leucocephala*, mycorrhizas 2522
*Macrophomina phaseolina* 111
mycorrhizal fungi, soil 3345
peaches, phylloplane fungi 2242
*Rhizopus oryzae* 6116
tomatoes 7673
control
*Alternaria*, *Brassica napus* 999
*Aspergillus niger*, onions 994
*Botrytis cinerea*
peas 7616
*Ruscus hypoglossum* 3995
strawberries 6173
tomatoes 6870
*Cochliobolus miyabeanus*, rice 2736
*Cochliobolus sativus*, wheat 2646, 4310
*Colletotrichum lindemuthianum*, *Phaseolus vulgaris* 946
*Corticium rolfsii*, chickpeas 4497
*Fusarium*, wheat 4310
*Fusarium culmorum*, wheat 2682
*Fusarium oxysporum* f.sp *ciceris*, chickpeas 4497
*Fusarium solani*, cowpeas 3709
*Gibberella fujikuroi*, rice 2736
*Laetisaria fuciformis*, *Lolium perenne* 931
*Leptosphaeria maculans*, rape 518
maize, seedborne organisms 5912
*Mycosphaerella pinodes*, peas 7616
*Myrothecium verrucaria*, *Capsicum* 1558
peas, diseases 953, 2129
*Penicillium oxalicum*, maize 4399
**Thiram** *cont.*
control *cont.*
*Phaeoisariopsis griseola*, *Phaseolus vulgaris* 946
*Phoma exigua* var. *diversispora*, *Phaseolus vulgaris* 946
potatoes, storage decay 1502
*Pyrenophora graminea*, barley 2041
*Pyricularia*, wheat 2646
*Pyricularia oryzae*, rice 330
*Pythium ultimum*, beetroots 420
*Rhizoctonia solani*
beetroots 420
chickpeas 4497
*Lolium perenne* 931
peas 2804
*Phaseolus vulgaris* 6779
rough lemons 4670
*Thielaviopsis basicola*, groundnuts 530
*Ustilago segetum* var. *tritici*, wheat 2010
*Ustulina deusta*, *Hevea brasiliensis* 2368
wheat, diseases 4313
fungicide residues
cowpeas 6025
determination 6454
fruit 78, 6454
health hazards 6436
vegetables 78
fungicide tolerance, *Botrytis cinerea* 5831
nontarget effects, beneficial arthropods 6453
seed treatment 4095
aubergines 8572
*Bromus inermis* 2755
chickpeas 2136, 6022, 7621
crops 4099
groundnuts 3068
maize 4399, 8348
peas 953, 6013, 7614
*Phaseolus vulgaris* 6779
rice 2736, 5964
safflower 4710
soyabeans 7595
*Vigna mungo* 2815
*Vigna radiata* 7629
*Vigna umbellata* 6026
watermelons 3799
wheat 4313, 5868, 6651, 7456
soil treatment 2522, 3345
**Thripidae**
transmission
ilarviruses 2585
tomato spotted wilt tospovirus 2584, 8722
***Thrips tabaci***
transmission
sowbane mosaic sobemovirus 1942
tobacco streak ilarvirus 3449
***Thryallis glauca***
*Oidiopsis thryallidis*
Maharashtra 7365
taxonomy 7365
**Thuja OC**, activity, cucumber mosaic cucumovirus 5466
***Thuja orientalis***, plant extracts, antifungal agents 2733
***Thuja plicata***
mycorrhizas
British Columbia 4143
soil treatment 4143
***Thujopsis dolabrata***, plant extracts, antifungal agents 3762
***Thunbergia***, *Alternaria*, Florida 4864
***Thymbra spicata***
plant extracts, antifungal agents 2483
plant oils, antifungal agents 2483
**Thyme** (*see Thymus vulgaris*)
***Thymus***
fungi
Austria 5609
Spain 5609
***Thymus vulgaris***, plant extracts, antifungal agents 3139
***Tiarosporella parca***, *Picea abies*, Switzerland 1716
**Tigam-C**, seed treatment, maize 1416
***Tilia***
*Tuber magnatum*
mycorrhizas
grafting 2500
inoculation 2500
***Tiliacora racemosa***, plant extracts, antifungal agents 77
***Tillandsia***
*Discosia tillandsiae*
Mexico 770
taxonomy 770
***Tilletia***
Romania, books 7177
wheat
breeding 5148, 8276
interactions 3535
Iran 5148, 6652
resistance 3535
spore germination 6652
Ukraine 8276
***Tilletia barclayana***
wheat
spore germination 264
temperature 264
***Tilletia caries*** (*see Tilletia tritici*)
***Tilletia controversa***
molecular genetics, karyotypes 3537
taxonomy, karyotypes 3537
wheat
breeding 2662
control 265
Iran 6652
seeds 265
Sweden 2662
***Tilletia foetida*** (*see Tilletia laevis*)
***Tilletia indica***
soil, control 1396
wheat
control 1396, 4335, 5149, 5867-5868
environmental factors 2009
forecasting 2009
genetics 4334
Haryana 2664
Himachal Pradesh 5149
histopathology 5869
Pakistan 5867
reviews 847
seed germination 8303
spore germination 264
sporulation 8301
temperature 264
varietal reactions 2663, 5868-5869, 8300
***Tilletia intermedia***, wheat, Iran 6652
***Tilletia laevis***
wheat
breeding 2662, 4336
control 6651
genetic resources 2637
Iran 6651-6652
Sweden 2662
varietal reactions 4336, 8299
***Tilletia tritici***
molecular genetics, karyotypes 3537
soil
inoculum 8302
UK 8302
taxonomy, karyotypes 3537
wheat
breeding 2662, 4336
climatic factors 7464
genetic resources 2637
inoculum 8302
Iran 6652
Sweden 2662, 7464
UK 8302
varietal reactions 4336, 5130, 8299
***Tilletia triticoides***, wheat, Iran 6652
**Tissue culture**, fungi, control 7243
**Tobacco** (*Nicotiana tabacum* and *N. rustica*)
*Agrobacterium*, genetic transformation 2352
*Agrobacterium rhizogenes*
gene expression 3108, 3944
genetic transformation 564, 8735
*Agrobacterium tumefaciens*
genetic transformation 565
host parasite relationships 7888
alfalfa mosaic alfamovirus, movement proteins 5501

**Tobacco** *cont.*
*Alternaria alternata*
integrated control 8730
Taiwan 8730
*Alternaria longipes*
control 8715
Nematoda 8715
*Aspergillus parasiticus*, control 7887
bacteria
control 1962
tissue culture 1962
*Botrytis cinerea*
genetic transformation 5508, 8734
phytoalexins 5508, 8734
resistance 5508
*Cercospora nicotianae*
alternative hosts 4763
pathogenesis-related proteins 2350
Zaire 4763
cucumber mosaic cucumovirus
coat proteins 1129, 8728
control 3095
detection 4239
genetic transformation 1669, 3104, 5502, 7413, 7882
genetics 5812
herbicides 3940
induced resistance 3104, 5502
interactions 8206
Jilin 3095
models 8716
molecular genetics 4761
resistance 1669, 7882
satellite RNA 5812
symptoms 1129, 4761, 5812, 8728
varietal reactions 8716
yield losses 4753
cymbidium mosaic potexvirus
genetic transformation 2573
induced resistance 2573
diseases
breeding 5492, 7052
control 1655, 2351
Republic of Georgia 2351
resistance 2343
Taiwan 5492
Zimbabwe 8715
*Erwinia amylovora*, host parasite relationships 4058
*Erwinia carotovora* subsp. *carotovora*
enzymes 4775
host parasite relationships 4775
*Erysiphe cichoracearum*
control 5506
varietal reactions 7064
*Fusarium oxysporum*, Nematoda 7886
*Fusarium solani*
enzymes 5509
genetic transformation 5509
*Fusarium sporotrichioides*, genetic transformation 4769
*Glomus fasciculatum*
mycorrhizas
chitinase 723
Nematoda 711
*Glomus intraradices*, mycorrhizas, chitinase 723
*Glomus mosseae*, mycorrhizas, pathogenesis-related proteins 8140
*Glomus versiforme*, mycorrhizas, chitinase 723
grapevine chrome mosaic nepovirus
coat proteins 3939
genetic transformation 3939
resistance 3939
mycorrhizas
Kentucky 8146
seasonal variation 8146
pathogenesis-related proteins, genetic transformation 4277
pea seed-borne mosaic potyvirus
gene expression 5809
genetic transformation 5809
*Peronospora tabacina*
biochemistry 1130
breeding 7063
control 3105
Cuba 3106
Europe 7883
fungicide tolerance 3106
host parasite relationships 4762

**Tobacco** *cont.*
*Peronospora tabacina cont.*
induced resistance 1130
Mediterranean countries 7883
pathogenicity 7062
reviews 1670
varietal reactions 4762, 7062
*Phytophthora cryptogea*
elicitors 3467
host parasite relationships 7065
induced resistance 3467
proteins 7065
*Phytophthora drechsleri*
host parasite relationships 8731
proteins 8731
*Phytophthora infestans*, pathogenesis-related proteins 4765
*Phytophthora megasperma* f.sp. *glycinea*, enzymes 4766
*Phytophthora nicotianae* var. *nicotianae*
breeding 7884
control 8715
Cuba 3107
distribution 7068
fungicide tolerance 3107
host parasite relationships 4285, 4768
induced mutations 7066
infection 4768
selection 7066
strains 7069
ultrastructure 4768
varietal reactions 7068, 8715
*Phytophthora nicotianae* var. *parasitica*
breeding 7061
control 4767
elicitors 3467, 7885
induced resistance 3467
phytoalexins 4764
selection 7067
strains 7069
plum pox potyvirus
coat proteins 3938
genetic transformation 3938, 8225
potato A potyvirus, immunodiagnosis 1656
potato X potexvirus
antiviral agents 6807, 7053
biochemistry 3096
gene expression 1668
genetic transformation 5497-5498
genetics 5497
inhibitors 5503
interactions 8206
molecular genetics 5504
protoplasts 7053
replication 5503
potato Y potyvirus
breeding 8724
Canada 2829
coat proteins 7060
control 3937
detection 4239
genetic engineering 6271
genetic transformation 2348, 7060, 8725
indicator plants 395
induced resistance 2348
interactions 8206
isolates 8726
metabolism 4760
molecular genetics 8726
RNA 4760
serology 2829
strains 2829, 4760
transmission 562-563, 3937
USA 2829
yield losses 4753
Yugoslavia 6272
*Pseudomonas corrugata*, hypersensitivity 8251
*Pseudomonas solanacearum*
breeding 1132, 5511, 7070
genetic transformation 5510
induced mutations 8736
pathogenicity 4062
plasmids 4062
resistance 5510
rhizosphere 3942
South Africa 7889
strains 3942, 5512
suppressive soils 4773

**Tobacco** *cont.*
*Pseudomonas solanacearum cont.*
varietal reactions 3942, 5511-5512, 7889
*Pseudomonas syringae* pv. *atropurpurea*
ethylene 3943
toxins 3943
*Pseudomonas syringae* pv. *phaseolicola*
genetic transformation 7071
toxins 7071
*Pseudomonas syringae* pv. *syringae*
genetic transformation 6275
host parasite relationships 4776
hypersensitivity 4776
resistance 6275
*Pseudomonas syringae* pv. *tabaci*
control 8715
genetic engineering 6276
genetic transformation 6275
genetics 5513
host parasite relationships 4058
resistance 6275
toxins 6276
*Pythium aphanidermatum*, biological control 4770
*Pythium myriotylum*
biological control 4770
Karnataka 3941
*Rhizoctonia solani*
control 8733
environmental factors 8715
enzymes 6274
Florida 8733
genetic engineering 6274
genetic transformation 1131
resistance 1131
sonchus yellow net nucleorhabdovirus, replication 1667
*Thielaviopsis basicola*
breeding 7061
control 6273
enzymes 723
pathogenesis-related proteins 8140
soil treatment 5507
tobacco etch potyvirus
genetics 8717
Mexico 8717
movement 2576
North Carolina 8717
tobacco mild green mosaic tobamovirus, proteins 5494
tobacco mosaic tobamovirus
antiviral agents 6807, 7053
biochemistry 1130, 3096
breeding 2346
chloroplasts 3099
coat proteins 1660-1661, 7058
control 3095
detection 794, 4239
DNA 3100
enzymes 3936, 7876
genetic engineering 3427
genetic transformation 1658-1660, 3097, 4755, 5495, 7058, 7396, 8719
genetics 1128, 5495, 7054
host parasite relationships 1323, 3931, 3935, 7059, 7879
immunodiagnosis 1656
induced resistance 1130, 1659-1660
inhibitors 3101, 3935
interactions 8206
Italy 4758
Jilin 3095
leaf age 1323
models 8716
molecular genetics 3932, 3934, 4756, 8720-8721
morphology 3103
movement 1661
movement proteins 1662, 4755, 5808, 7876, 8718
pathogenesis-related proteins 1127, 1657, 2345, 3931-3932, 3936, 4754, 4756-4757, 8720
pathogenicity 3933
plant extracts 7056-7057
plasmodesmata 1662
proteins 561, 3098, 5494, 5496
protoplasts 7053
resistance 561, 1128, 1658, 3427

**Tobacco** *cont.*
tobacco mosaic tobamovirus *cont.*
RNA 1663
salicylic acid 3931
soil solarization 3102
strains 3933, 6270, 7059
symptoms 3934
varietal reactions 7054, 8716
yield losses 7878
tobacco necrosis necrovirus, molecular genetics 5505
tobacco rattle tobravirus
detection 1334
translation 2349
tobacco vein mottling potyvirus
genetics 8717
immunodiagnosis 8729
Mexico 8717
North Carolina 8717
proteins 8729
transmission 8727
varietal reactions 8727
tomato aspermy cucumovirus
genetic transformation 5502
induced resistance 5502
tomato golden mosaic bigeminivirus
gene expression 1665
genetic transformation 1665, 5499-5500, 7881
induced resistance 7881
tomato mosaic tobamovirus
coat proteins 7880
genetic transformation 7880
genetics 7054
proteins 5494
varietal reactions 7054
tomato spotted wilt tospovirus
breeding 1664
control 8722
genetic transformation 2347, 4759
immunodiagnosis 8208
induced resistance 2347
resistance 1664, 4759
vectors 8722
*Trichoderma viride*
elicitors 8732
ethylene 4771, 8732
host parasite relationships 4771
pathogenesis-related proteins 8732
viruses
control 3930, 5493
genetic transformation 8191
pathogenesis-related proteins 2344
resistance 7055
Taiwan 5493
transmission 5493
*Xanthomonas campestris*, Cuba 4774
zucchini yellow mosaic potyvirus, genetic engineering 6588
**Tobacco etch potyvirus**
molecular genetics
gene mapping 171
genetic transformation 2576
proteinases 2577
proteins 5093
taxonomy, nuclear inclusions 178
tobacco
genetics 8717
Mexico 8717
movement 2576
North Carolina 8717
tomatoes
integrated control 6095
Mexico 6095
**Tobacco leaf curl bigeminivirus,** *Lonicera japonica*, detection 1941
**Tobacco mild green mosaic tobamovirus,** tobacco, proteins 5494
**Tobacco mosaic satellite virus**
molecular genetics
coat proteins 6592
nucleotide sequences 8207
RNA 6592
**Tobacco mosaic tobamovirus**
aubergines
detection 1009
India 6876
seeds 1009
strains 6876
Turkey 1009
**Tobacco mosaic tobamovirus** *cont.*
*Capsicum*
breeding 8574
detection 1009
enzymes 2906
histopathology 3782
plant extracts 6886
seeds 1009, 1019
soil 1556
Turkey 1009
Yugoslavia 8574
carrots
host parasite relationships 3935
inhibitors 3935
cucumbers, mixed infections 8588
garlic, Shaanxi 2857
laboratory tests, plant extracts 7394
*Lycopersicon peruvianum*, interspecific hybridization 8542
molecular genetics
coat proteins 7402-7403
gene expression 7404
mutants 7403
nucleotide sequences 5814
proteins 7059
RNA amplification 794
translation 793, 5814, 7402
monoclonal antibodies 1325
movement proteins, phosphorylation 7401
*Nicotiana*, pathogenesis-related proteins 7877
*Physalis alkekengi*, Japan 5570
plants
histopathology 1324
pathogenesis-related proteins 1969
potatoes, varietal reactions 8481
serotypes 1325
sugarbeet, infection 4726
tobacco
antiviral agents 6807, 7053
biochemistry 1130, 3096
breeding 2346
chloroplasts 3099
coat proteins 1660-1661, 7058
control 3095
detection 794, 4239
DNA 3100
enzymes 3936, 7876
genetic engineering 3427
genetic transformation 1658-1660, 3097, 4755, 5495, 7058, 7396, 8719
genetics 1128, 5495, 7054
host parasite relationships 1323, 3931, 3935, 7059, 7879
immunodiagnosis 1656
induced resistance 1130, 1659-1660
inhibitors 3101, 3935
interactions 8206
Italy 4758
Jilin 3095
leaf age 1323
models 8716
molecular genetics 3932, 3934, 4756, 8720-8721
morphology 3103
movement 1661
movement proteins 1662, 4755, 5808, 7876, 8718
pathogenesis-related proteins 1127, 1657, 2345, 3931-3932, 3936, 4754, 4756-4757, 8720
pathogenicity 3933
plant extracts 7056-7057
plasmodesmata 1662
proteins 561, 3098, 5494, 5496
protoplasts 7053
resistance 561, 1128, 1658, 3427
RNA 1663
salicylic acid 3931
soil solarization 3102
strains 3933, 6270, 7059
symptoms 3934
Taiwan 5492
varietal reactions 7054, 8716
yield losses 7878
tomatoes
China 6092
chloroplasts 7676
detection 1009
genetic transformation 3766-3767
**Tobacco mosaic tobamovirus** *cont.*
tomatoes *cont.*
integrated control 6095
interspecific hybridization 8542
Mexico 6095
molecular genetics 3765
Parana 2885
pathogenesis-related proteins 4568
seeds 1009
strains 6092
symptoms 1547
Turkey 1009
varietal reactions 1548, 5329
vegetables, Shandong 3466
**Tobacco necrosis necrovirus**
cucumbers
enzymes 2914
host parasite relationships 2914
Latvia 6132
*Phaseolus vulgaris*, plant extracts 6005
soyabeans
ethylene 942
hypersensitivity 942
temperature 942
tobacco, molecular genetics 5505
*Vigna unguiculata* subsp. *sesquipedalis*
ethylene 2144
hypersensitivity 2144
water, Germany 788
**Tobacco necrosis satellite virus 2**
molecular genetics
nucleotide sequences 8219
RNA 8219
**Tobacco rattle tobravirus**
molecular genetics, transmission 8229
*Narcissus tazetta* var. *chinensis*, Fujian 7967
*Nicotiana clevelandii*, movement 2578
serotypes 1950, 3453
tobacco
detection 1334
translation 2349
transmission 1950, 3453
**Tobacco ringspot nepovirus**
melons, Mexico 6890
molecular genetics
replication 3443
satellite RNA 3443
*Phaseolus lunatus*, pathogenesis-related proteins 4474
transmission 169
**Tobacco streak ilarvirus**
endives
Florida 421
immunodiagnosis 421
lettuces
Florida 421
immunodiagnosis 421
lucerne
Canada 4454
USA 4454
raspberries, immunodiagnosis 6140
transmission 3449
**Tobacco vein mottling potyvirus**
molecular genetics, gene expression 8220
tobacco
genetics 8717
immunodiagnosis 8729
Mexico 8717
North Carolina 8717
proteins 8729
transmission 8727
varietal reactions 8727
**Togo,** cassava, *Xanthomonas campestris* pv. *manihotis* 6066
**Tolclofos-methyl**
activity
*Botrytis cinerea* 4104
*Monographella nivalis* 4104
*Ustilago zeae* 1239
control
*Erysiphe cruciferarum*, Indian mustard 3756
*Leptosphaeria maculans*, rape 518
*Pythium ultimum*, beetroots 420
*Rhizoctonia solani*
beetroots 420
cotton 3112
*Delphinium* 5578
potatoes 3723, 3725
rice 917

**Tolclofos-methyl** *cont.*
seed treatment
*Phaseolus vulgaris* 2792
*Vigna radiata* 2816
soil treatment 2816
**Tolylfluanid**
control
*Botrytis cinerea*
greenhouse crops 5831
strawberries 6173
cotton, seedborne fungi 5517
*Phytophthora infestans*, potatoes 975
*Pyricularia oryzae*, rice 330
***Tolyposporium ehrenbergii***
sorghum
air spora 312
India 312
transmission 312
***Tolyposporium penicillariae***
*Pennisetum americanum*
breeding 896
morphology 2071
Nigeria 2071
susceptibility 5199
**Tomato apical stunt viriod,** molecular genetics, pathogenicity 2575
**Tomato aspermy cucumovirus**
chrysanthemums, biological control 7134
molecular genetics
RNA 5050
transmission 5050
preservation 8201
tobacco
genetic transformation 5502
induced resistance 5502
tomatoes
Estonia 6860
reservoir hosts 6860
symptoms 6856
transmission 6860
weeds
Estonia 6860
reservoir hosts 6860
transmission 6860
**Tomato (Australian) leafcurl bigeminivirus,** molecular genetics, nucleotide sequences 3438
**Tomato black ring nepovirus**
grapes, indicator plants 6958
molecular genetics
proteins 5088
translation 5088
raspberries, immunodiagnosis 1589
*Senecio integrifolius*, Czechoslovakia 1755
*Senecio nemorensis* subsp. *fuchsii*, Czechoslovakia 1755
sugarbeet, Beijing 537
**Tomato bushy stunt tombusvirus**
molecular genetics
coat proteins 6587
nucleotide sequences 3441
water, Czech Republic 3450
**Tomato golden mosaic bigeminivirus**
*Arabidopsis thaliana*, host parasite relationships 2583
molecular genetics
gene expression 1340
replication 799, 7412
*Nicotiana benthamiana*, host parasite relationships 2583
sugarbeet, host parasite relationships 2583
tobacco
gene expression 1665
genetic transformation 1665, 5499-5500, 7881
induced resistance 7881
tomatoes, host parasite relationships 2583
**Tomato mosaic tobamovirus**
*Abies balsamea*, spread 8784
*Capsicum*
pathotypes 6117, 8539
Spain 6117, 8539
horticultural crops, disinfectants 789
*Picea mariana*, spread 8784
*Picea rubens*, spread 8784
tobacco
coat proteins 7880
genetic transformation 7880
genetics 7054
**Tomato mosaic tobamovirus** *cont.*
tobacco *cont.*
proteins 5494
varietal reactions 7054
tomatoes
Iran 6859
Italy 4575
movement 4578
pathotypes 8539
resistance 4578
seeds 6859
Spain 8539
symptoms 6856, 6859
yield losses 4575
**Tomato mottle geminivirus**
tomatoes
Florida 3769, 5327
genetics 5327
**Tomato planta macho viroid,** tomatoes, pathogenesis-related proteins 3768
**Tomato ringspot nepovirus**
apples
Nematoda 3814
USA 3814
grapes
Egypt 2247
immunodiagnosis 484
nectarines
detection 4625, 5411
Nematoda 3814
USA 3814
peaches
detection 4625
Nematoda 3814
USA 3814
plums, detection 4625
*Taraxacum officinale*, flowering 4898
**Tomato spotted wilt tospovirus**
*Alstroemeria*, Italy 3190
*Arachis*, elimination 7027
aubergines
characteristics 8570
Uttar Pradesh 8570
*Capsicum*
Brazil 4591
Poland 5075
serology 5075
susceptibility 4591
transmission 5075
characteristics 8202
chicory
Italy 2876
symptoms 2876
transmission 2876
chrysanthemums
Poland 5075
serology 5075
transmission 5075
*Dahlia*, France 3189
*Dieffenbachia*
Poland 5075
serology 5075
transmission 5075
epidemiology
insects 3433
reservoir hosts 3433
reviews 2584
*Ficus elastica*, Spain 7126
*Ficus pumila*, Spain 7126
*Gerbera*
Poland 5075
serology 5075
transmission 5075
grapes
infection 5424
Ontario 5424
groundnuts
elimination 7027
Georgia 8680
intercropping 7830
Mississippi 3064
transmission 3064
yield losses 8680
*Impatiens*
characteristics 1178
integrated control 7958
Maryland 7958
Netherlands 1178
*Impatiens walleriana*, Costa Rica 6337
Italy 5123, 8202
laboratory tests, plant extracts 7394
**Tomato spotted wilt tospovirus** *cont.*
*Lycopersicon peruvianum*, interspecific hybridization 8542
molecular genetics
nucleotide sequences 5061, 5065
RNA 5076, 8210
transcription 5061
*Nicotiana alata*, host parasite relationships 8723
*Nicotiana sanderae*, host parasite relationships 8723
Orchidaceae, Hawaii 7142
ornamental plants
Georgia 3179
Sweden 1351
*Phalaenopsis*, California 1739
*Physalis ixocarpa*, Louisiana 8604
replication 5813
tobacco
breeding 1664
control 8722
genetic transformation 2347, 4759
immunodiagnosis 8208
induced resistance 2347
resistance 1664, 4759
vectors 8722
tomatoes
breeding 1546, 2883-2884, 4570
genetics 2187, 2884
interspecific hybridization 8542
Poland 5075
serology 5075
Sweden 1351
symptoms 6856
transmission 5075
Uttar Pradesh 8546
yield losses 6093, 8546
transmission 1939, 4240
vectors 4253, 5813
reviews 2584
*Zantedeschia aethiopica*
Italy 4872
symptoms 4872
**Tomato yellow leaf curl bigeminivirus**
*Lycopersicon*
breeding 5328
genetics 5328
resistance 4577
transmission 4577
*Nicotiana benthamiana*, molecular genetics 434
tomatoes
breeding 4569, 4571, 5328
control 2890-2891
detection 1941
DNA 2190, 5322
genetics 5328
histopathology 7675
Italy 2893, 5330
molecular genetics 434
resistance 4577
transmission 2890-2891, 4577
Uttar Pradesh 8546
varietal reactions 2188, 2892-2893, 5322
yield losses 8546
**Tomatoes** (*Lycopersicon esculentum* and *L. pimpinellifolium*)
*Acaulospora morrowae*, mycorrhizas, diseases 438
alfalfa mosaic alfamovirus
Japan 8547
serology 8547
*Alternaria alternata*
selection 8246
susceptibility 436
toxins 436, 5338, 6867, 8559
varietal reactions 6867
volatile compounds 6506
*Alternaria solani*
biological control 2615
control 6862, 6872, 7631, 7687
genetics 8553-8555
Mexico 6872
Ontario 6862
selection 8246
Uttar Pradesh 8236
varietal reactions 6862
*Aspergillus niger*, Nematoda 1550
bacteria
control 1962, 6112

**Tomatoes** *cont.*
bacteria *cont.*
Israel 7691
Italy 3486
seed treatment 7691
Switzerland 6112
tissue culture 1962
beet curly top intergeminivirus
control 8545
Washington 8545
big bud
California 5323
Greece 4572
mycoplasma-like organisms 4572, 5323
transmission 5323
blossom-end rot
calcium 6113
varietal reactions 3779
*Botrytis cinerea*
biological control 6100
control 2197, 5832, 6099-6100
fungicide tolerance 5832
Greece 5832
integrated control 5833, 6870
plant growth regulators 6098, 7674
polyethylene film 2197
volatile compounds 6506
citrus exocortis viroid, polyamines 4268
*Clavibacter michiganensis* subsp. *michiganensis*
detection 7693
host parasite relationships 2900
hosts 8567
inoculation 8567
inoculum density 1553
Liaoning 8567
molecular genetics 1015
Ohio 6110
pathogenicity 1015
phenolic compounds 2900
quarantine 7693
seeds 7693
spread 6110
temperature 1553
testing 1014
varietal reactions 1553, 4586
virulence 2900
yield losses 6110
*Colletotrichum coccodes*
control 6616
host range 6616
reviews 6616
*Corticium rolfsii*, biological control 8564
*Corynespora cassiicola*, Trinidad and Tobago 4266
cucumber mosaic cucumovirus
genetic transformation 2186
induced resistance 2888, 5325, 6091
Japan 6091
mixed infections 2889
satellite RNA 2186, 2888, 5324, 5326, 6091
symptoms 5324, 5326
defence mechanisms
elicitors 6101
suppressors 6101
*Didymella lycopersici*
control 4584, 7684
Morocco 4584
diseases
breeding 8543
California 4291
control 817, 4291, 4567, 4581, 4904, 6090, 6857, 8561-8562
Honshu 5335
hydroponics 8561
integrated control 1359, 2882
interspecific hybridization 8542
Italy 1359, 2882, 6857
Moldova 817
mulching 4567
resistance 5842
soil 5335
symptoms 6856
Turkey 4567
USA 6090
disorders
expert systems 8569
models 8569
**Tomatoes** *cont.*
elicitors
bioassays 1551
ethylene 1551
*Erwinia carotovora* subsp. *carotovora*, North Carolina 5341
*Fulvia fulva*
elicitors 8565
genetics 811, 5331, 7677
host parasite relationships 811, 2195
molecular genetics 437, 2605, 4585, 6864, 7679, 7688, 8541
pathogenesis-related proteins 2195, 6096
pathogenicity 4585
virulence 437
fungi
roots 8560
ultrastructure 8560
fungicide residues 1830
determination 72, 435, 6416
fungicides
activity 7673
metabolism 6102
uptake 6102
*Fusarium*
selection 8552
toxins 8552
*Fusarium oxysporum*
Jammu and Kashmir 8563
storage 8563
*Fusarium oxysporum* f.sp. *lycopersici*
antagonists 3775
arthropod pests 5332
biological control 3480, 7683, 8540
control 5333, 6868
enzymes 3774
host parasite relationships 2194, 3774, 7678
induced resistance 5332
integrated control 6865
Iran 6866
isoenzymes 2899
Japan 5334
mixed infections 6106
Nematoda 6097
pathogenicity 1552
population genetics 2899
Queensland 6103
races 6103, 6866
root exudates 1013
screening 5334, 7678
soil solarization 3480
soilless culture 6106
Switzerland 6106
toxins 2194
Turkmenistan 6868
varietal reactions 1013, 1552, 6866, 7680
vegetative compatibility groups 6103
*Fusarium oxysporum* f.sp. *radicis-lycopersici*
biological control 6608, 8544
chitosan 2196
host parasite relationships 2196
induced resistance 2196
Italy 5340
pathogenicity 1552
varietal reactions 1552
*Fusarium oxysporum* f.sp. *vasinfectum*, control 5333
*Fusarium pallidoroseum*
Jammu and Kashmir 8563
storage 8563
*Fusarium solani*, infection 2193
*Geotrichum candidum*, fungicide tolerance 4952
*Gibberella acuminata*
Jammu and Kashmir 8563
storage 8563
*Gibberella fujikuroi*, toxins 5338
*Glomerella cingulata*, ethylene 8550
*Glomus fasciculatum*, mycorrhizas, diseases 1016
*Glomus intraradices*, mycorrhizas, plant growth regulators 5730
*Glomus leptotichum*, mycorrhizas, diseases 438
greywall, aetiology 1547
groundnut bud necrosis virus characteristics 8203
**Tomatoes** *cont.*
groundnut bud necrosis virus *cont.*
Taiwan 8203
internal browning, aetiology 1547
manganese, toxicity, Florida 4278
*Mucor mucedo*
control 4580
storage 4580
mycoplasma-like organisms
detection 1348
transmission 1348
*Oidium*
control 6107
Mexico 6107
pathogenesis-related proteins
ethylene 3764
molecular genetics 8551
*Penicillium pinophilum*
biological control 3480
soil solarization 3480
pepper mild mottle tobamovirus
pathotypes 8539
Spain 8539
pesticide residues
analysis 1226
California 2896
pesticides, toxicity 7214
*Phoma medicaginis*, biological control 2615
*Phytophthora infestans*
biological control 7683
breeding 8556
composts 6609
control 6451, 6609, 6863, 6872
cytology 6863
environmental factors 3772
host parasite relationships 4285
Mexico 231, 6872
models 8566
pathogenicity 7681
population genetics 231
Taiwan 7681
Yugoslavia 8556
*Phytophthora megasperma* f.sp. *glycinea*, elicitors 4588
*Phytophthora nicotianae* var. *nicotianae*
biological control 6608
hydroponics 6608
immune serum 1012
immunodiagnosis 1012
*Phytophthora nicotianae* var. *parasitica*
California 7682
control 8557
edaphic factors 7682
salinity 6104
sporulation 4582
Uttar Pradesh 8557
varietal reactions 2895
pittosporum vein yellowing nucleorhabdovirus, Italy 3770
*Pleospora tarda*, biological control 2615
postharvest decay
control 6105
India 6105
potato spindle tuber viroid
detection 5098, 5288
host parasite relationships 2887
immunodiagnosis 2887
serology 2886
potato X potexvirus
cytology 6858
symptoms 2894
potato Y potyvirus
Himachal Pradesh 4574
mixed infections 2889
physiology 4574
transmission 4573
*Pseudomonas corrugata*
Argentina 6111
North Carolina 5341
*Pseudomonas solanacearum*
antagonists 6874
Bangladesh 439
biological control 8544
breeding 6109
control 4587
grafting 7689
Guadeloupe 2901
latent infections 8568
Martinique 2901
mycorrhizas 1016

**Tomatoes** *cont.*
*Pseudomonas solanacearum cont.*
Nematoda 2901
pathogenicity 4062
plasmids 4062
resistance 8568
varietal reactions 439
*Pseudomonas syringae* pv. *maculicola*, characteristics 6088
*Pseudomonas syringae* pv. *syringae*
seeds 6873
survival 6873
*Pseudomonas syringae* pv. *tomato*
breeding 3778, 6108, 6875
characteristics 6088
control 2199
genetics 6108
Italy 3778
molecular genetics 2198, 3776-3777, 7692
pathogenicity 3776
resistance 2198, 3777, 7692
seeds 6873
survival 6873
toxins 1789, 7690
varietal reactions 7695
*Pseudomonas viridiflava*
seeds 6873
survival 6873
*Pseudopeziza medicaginis*, biological control 2615
*Pyrenochaeta lycopersici*
California 7682
edaphic factors 7682
*Pythium*
biological control 6869
control 2880, 7251
environmental factors 1303
mixed infections 6106
seed treatment 7251
soilless culture 2880, 6106
Switzerland 6106
*Pythium indicum*, antagonists 7686
*Pythium ultimum*, biological control 3771
*Rhizoctonia solani*
biological control 438, 3771, 8558
mycorrhizas 438
Nematoda 1550
ribgrass mosaic tobamovirus, Zhejiang 1549
seedborne fungi
Brazil 2881
seed testing 4579
*Septoria lycopersici*
São Paulo 6871
screening 5336
Uttar Pradesh 8236
varietal reactions 6871
*Stemphylium*
control 6872
Mexico 6872
*Stemphylium solani*, varietal reactions 2898
stolbur
mycoplasma-like organisms 4576, 6094
Switzerland 6094
transmission 4576
Turkey 4576
storage decay
environmental factors 5337
Jammu and Kashmir 8563
tobacco etch potyvirus
integrated control 6095
Mexico 6095
tobacco mosaic tobamovirus
China 6092
chloroplasts 7676
detection 1009
genetic transformation 3766-3767
integrated control 6095
Mexico 6095
molecular genetics 3765
Parana 2885
pathogenesis-related proteins 4568
seeds 1009
strains 6092
symptoms 1547
Turkey 1009
varietal reactions 1548, 5329
**Tomatoes** *cont.*
tomato aspermy cucumovirus
Estonia 6860
reservoir hosts 6860
transmission 6860
tomato golden mosaic bigeminivirus, host parasite relationships 2583
tomato mosaic tobamovirus
Iran 6859
Italy 4575
movement 4578
pathotypes 8539
resistance 4578
seeds 6859
Spain 8539
symptoms 6859
yield losses 4575
tomato mottle geminivirus
Florida 3769, 5327
genetics 5327
tomato planta macho viroid, pathogenesis-related proteins 3768
tomato spotted wilt tospovirus
breeding 1546, 2883-2884, 4570
genetics 2187, 2884
Poland 5075
serology 5075
Sweden 1351
transmission 5075
Uttar Pradesh 8546
yield losses 6093, 8546
tomato yellow leaf curl bigeminivirus
breeding 4569, 4571, 5328
control 2890-2891
detection 1941
DNA 2190, 5322
genetics 5328
histopathology 7675
Italy 2893, 5330
molecular genetics 434
resistance 4577
transmission 2890-2891, 4577
Uttar Pradesh 8546
varietal reactions 2188, 2892-2893, 5322
yield losses 8546
*Verticillium albo-atrum*
enzymes 3773
host parasite relationships 3773
*Verticillium dahliae*
biological control 7683
control 4584
Greece 2192
Morocco 4584
races 2192
selection 8246
viruses
breeding 2189
China 1974
detection 8548
diagnosis 6861
Europe 6861
genetic transformation 8191
Malaysia 1974
Mediterranean countries 6861
Switzerland 6094
*Xanthomonas campestris* pv. *vesicatoria*
Barbados 1010
Colombia 2200
control 1010
culture media 433
detection 7694
hosts 2200
molecular genetics 1011, 6089
pathogenicity 1011
quarantine 7694
races 1010
resistance 6089
seeds 7694
strains 433
temperature 2902
**Tonga**
*Piper methysticum*, cucumber mosaic cucumovirus 5601
*Vanilla fragrans*, viruses 4011
*Vanilla planifolia*, vanilla necrosis potyvirus 1182, 4879
*Vanilla tahitensis*, viruses 4011
***Toona sinensis***
*Pseudocercospora toonae*
China 8173
***Toona sinensis*** *cont.*
*Pseudocercospora toonae cont.*
taxonomy 8173
***Torula herbarum***, India 3402
***Toxoptera citricidus***, transmission, citrus tristeza closterovirus 3871
**Trace elements**, deficiency, crops 2603
***Trachyspermum ammi***, plant extracts, antifungal agents 4504
***Trametes cubensis***, *Dalbergia sissoo*, physiology 8762
***Trametes persoonii***, *Shorea robusta*, physiology 8762
***Trametes versicolar***, soil, growth 5035
***Tranzschelia discolor***
almonds
control 4690
Himachal Pradesh 4690, 7809
varietal reactions 7809
peaches
control 6943
Mexico 6937
Taiwan 6943
plums
Germany 6555
Mexico 6937
taxonomy 6555
spore germination, environmental factors 1282
***Tranzschelia pruni-spinosae***
peaches
control 4036
Malawi 4036
plums, preservation 6159
***Trapa bispinosa*** (*see* Water chestnuts)
**Trapex** (*see* Methyl isothiocyanate)
**Trees**
*Agrobacterium tumefaciens*
Pakistan 5650
strains 5650
air pollution, Germany 7956
algae
control 1722
Washington 1722
Aphyllophorales, Portugal 3128
*Armillaria mellea*
biological control 581
reviews 1687
damage, optical properties 6286
diseases
optical properties 6286
Philippines 2372
*Heterobasidion annosum*, reviews 1687
lichens
control 1722
Washington 1722
mosses
control 1722
Washington 1722
mycorrhizas
Ethiopia 1842
India 2505
Somalia 1842
*Nectria*
control 583
hosts 583
symptoms 583
pesticides, books 5660
root rots, biological control 580
seedborne organisms 3963
*Tuber magnatum*, mycorrhizas, culture 1848
wood destroying fungi, enzymes 2377
**Triadimefon**
activity
apples 6916
*Ceratocystis fimbriata*, sweet potatoes 416
*Corticium rolfsii* 7865
*Koleroga noxia* 7866
*Podosphaera leucotricha*, apples 2954
*Rhizoctonia cerealis* 8091
rye, diseases 2622
sugarbeet, diseases 535
wheat, diseases 2622
control
barley, diseases 3564
*Ciborinia camelliae*, *Camellia* 8808
*Crinipellis perniciosa*, cocoa 4747
*Cronartium ribicola*, *Pinus lambertiana* 7112

**Triadimefon** *cont.*
control *cont.*
*Drechslera poae, Poa pratensis* 4450
*Erysiphe graminis*, wheat 2641
*Eutypa lata*, grapes 2997
*Ganoderma boninense*, oil palms 2314-2315
*Gibberella zeae*, wheat 855
grapes, storage decay 2988
*Hemileia vastatrix*, coffee 3928
*Laetisaria fuciformis, Lolium perenne* 931
*Leptosphaeria nodorum*, wheat 6660
*Microcyclus ulei, Hevea* 579
*Oidium*, tomatoes 6107
*Podosphaera leucotricha*, apples 2939, 6921, 8610
*Puccinia arachidis*, groundnuts 3073
*Puccinia brachypodii* var. *poae-nemoralis, Poa pratensis* 4450
*Puccinia graminis*, wheat 1392
*Puccinia horiana*, chrysanthemums 4867
*Puccinia poarum, Poa pratensis* 4450
*Puccinia recondita*, wheat 2641, 3530, 6642
*Puccinia striiformis*, wheat 6642
*Pyrenophora dictyoides, Festuca pratensis* 6754
*Rhizoctonia*, wheat 8321
*Rhizoctonia solani, Lolium perenne* 931
*Rigidoporus lignosus, Hevea brasiliensis* 8746
*Sclerotium cepivorum*, onions 2176, 4545
*Sphaerotheca pannosa*, peaches 4629
*Uncinula necator*, grapes 6966
*Ustilaginoidea virens*, rice 3649
*Venturia inaequalis*, apples 2939
wheat, diseases 838, 2638
formulations 1415
fungicide residues
fruit 2451
vegetables 2451
fungicide tolerance
*Aspergillus nidulans* 4199
*Erysiphe graminis* 2697, 8331
*Nectria haematococca* var. *cucurbitae* 5758
*Sphaerotheca fuliginea* 5373
*Sphaerotheca macularis* 2245
*Ustilago zeae* 1242, 8093
*Venturia inaequalis* 7736
seed treatment, watermelons 3799

**Triadimenol**
activity
barley 6677
*Botrytis cinerea* 1811
*Podosphaera leucotricha*, apples 2954
*Pyrenophora teres* 1811
*Rhizoctonia cerealis* 8091
*Thielaviopsis basicola*
soil 6273
tobacco 6273
tobacco 8715
*Ustilago zeae* 1811
control
*Akaropeltopsis*, avocados 2280
*Cochliobolus sativus*, wheat 2642
*Entyloma australe, Physalis ixocarpa* 6909
*Erysiphe betae*, sugarbeet 3918
*Erysiphe graminis*
barley 1407
wheat 7453
*Ganoderma boninense*, oil palms 2314-2315
*Gibberella zeae*, wheat 2642
*Leptosphaeria nodorum*, wheat 2016, 4343
mangoes, diseases 7801
*Marssonina brunnea, Populus* 3138
*Mycosphaerella brassicicola*, Brussels sprouts 8515
*Mycosphaerella graminicola*, wheat 2016
*Oidium*, tomatoes 6107
*Phytophthora palmivora*, cocoa 557
*Podosphaera leucotricha*, apples 6915

**Triadimenol** *cont.*
control *cont.*
*Pseudocercospora purpurea*, avocados 2280
*Puccinia psidii*, guavas 3886
*Puccinia recondita*, wheat 6642, 7453
*Puccinia striiformis*, wheat 6642
*Pyrenopeziza brassicae*, Brussels sprouts 8515
*Rhizoctonia*, wheat 8321
*Rhizoctonia solani*, cotton 1134
*Rhynchosporium secalis*, barley 3585, 5899
*Sclerotium cepivorum*, onions 4545
*Sphaerotheca pannosa* var. *persicae*, peaches 6945
*Thielaviopsis basicola*, cotton 1134
triticale, diseases 5183
*Venturia inaequalis*, apples 6915
wheat, diseases 8285, 8323
fungicide residues
*Capsicum* 1800
sour oranges 1800
fungicide tolerance
*Erysiphe graminis* 1376, 8331
*Nectria haematococca* var. *cucurbitae* 5758
*Puccinia striiformis* 8297
*Pyrenophora teres* 285
*Rhynchosporium secalis* 6687
*Uncinula necator* 7783
seed treatment
asparagus 8532
cereals 827
maize 881
triticale 5183
wheat 2642, 2666
soil treatment 7153
uptake, barley 5888
***Trialeurodes vaporariorum***, transmission, tomato yellow leaf curl bigeminivirus 2891
**Triaryl ethers**
activity
*Cochliobolus miyabeanus* 2468
*Fusarium solani* 2468
**Triazoles**
activity
*Aspergillus niger* 4096
*Botrytis cinerea* 75, 5756
*Cochliobolus miyabeanus* 4096
*Fusarium oxysporum* f.sp. *sesami* 75
*Oncobasidium theobromae* 554
*Pyricularia oryzae* 75
*Valsa ceratosperma* 75
seed treatment, cereals 3500
**Tributyltin acetate**, activity, yams, postharvest decay 6068
***Trichaptum abietinum***, forest trees, Taiwan 2378
**Trichlamide**, control, *Aphanomyces raphani*, Chinese cabbages 2181
***Trichocladium basicola***, *Trifolium pratense*, control 8420
***Trichoderma***
activity
*Artemia salina* 101
*Geotrichum candidum* 101
tomatoes 101
antagonism
*Botrytis cinerea* 5829
*Mycocentrospora acerina* 411
*Phymatotrichopsis omnivora* 6541
*Pseudocercosporella herpotrichoides* 8264
*Sclerotium cepivorum* 423
soil fungi 1301, 8167
apples, replant disease 1574
control
*Armillaria limonea, Pinus radiata* 7939
*Armillaria novae-zelandiae, Pinus radiata* 7939
*Botrytis cinerea*, greenhouse crops 3470
*Corticium rolfsii*, rice 337
crops, diseases 3482
cucumbers, diseases 4604
*Fusarium culmorum*
barley 292
wheat 276

***Trichoderma*** *cont.*
control *cont.*
*Fusarium oxysporum* f.sp. *dianthi*, carnations 613
*Oligoporus placenta, Pseudotsuga menziesii* 3166
*Phialophora cinerescens*, carnations 616
plant diseases 5638
*Pseudocercosporella herpotrichoides*, wheat 275
*Pyrenophora teres*, barley 6685
*Rhizoctonia solani*, fenugreek 6350
*Sclerotinia sclerotiorum*
celery 8504
cucumbers 6134
lettuces 8504
tulips, tip-burn 619
evolution 112
genetics 112
hyperparasitism
*Corticium rolfsii* 8167
*Rhizoctonia solani* 1299, 8167
*Sclerotinia sclerotiorum* 1626, 7789
interactions, *Glomus mosseae* 2512
maize
control 5916
Mexico 5916
molecular genetics, genetic engineering 6382
potatoes, soil management 6813
seed treatment
cucumbers 8167
plant diseases 5638
soil
Bangladesh 119
control 5916
Mexico 5916
soil amendments 4733
soil management 6813
***Trichoderma atroviride***, *Angelica*, taxonomy 767
***Trichoderma hamatum***
antagonism, *Sclerotinia sclerotiorum* 740
conidia, production 6578
control
*Botrytis allii*, onions 4548
*Botrytis cinerea*, kiwifruits 7791
*Phellinus noxius, Hevea brasiliensis* 5524
*Picea abies*, soil pH 7945
*Pleurotus ostreatus*, control 4018
soil, Germany 3125
***Trichoderma harzianum***
activity
asparagus
diseases 8536
seed germination 8535
cucumbers, diseases 2917
*Pythium*, tulips 618
antagonism
*Armillaria mellea* 581
*Colletotrichum graminicola* 6707
*Coriolus versicolor* 4192
*Corticium rolfsii* 1487
*Fusarium longipes* 5454
*Fusarium oxysporum* f.sp. *sesami* 2327
*Fusarium solani* 5454
plant pathogenic fungi 4176
*Pythium ultimum* 5776
*Rhizoctonia solani* 4441, 7343
*Sclerotinia sclerotiorum* 4177, 8510
soil fungi 8167
antibiotics, purification 1298
antifungal agents 4179
biochemistry
enzymes 5001, 7341
metabolites 3375
conidia, production 6578, 8186
control
*Alternaria raphani*, radishes 2869
*Aphanomyces euteiches* 4484
*Botrytis cinerea*
crops 5833
cucumbers 6135
roses 2407
tomatoes 6100
*Coriolus versicolor, Pseudotsuga menziesii* 3991

***Trichoderma harzianum*** *cont.*
control *cont.*
*Corticium rolfsii*
chickpeas 4497
*Pinellia ternata* 1745
sesame 1105
sugarbeet 4731
damping off
cucumbers 228
lettuces 228
peas 228
fruit, storage decay 7428
*Fusarium oxysporum*, cowpeas 7624
*Fusarium oxysporum* f.sp *ciceris*, chickpeas 4497
*Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6865
oats, diseases 1379
*Oligoporus placenta*, *Pseudotsuga menziesii* 3991
*Phellinus noxius*, *Hevea brasiliensis* 5524
*Pleospora betae*, sugarbeet 540-541
potatoes, storage decay 7428
*Pythium*, cucumbers 449
*Pythium aphanidermatum*, tobacco 4770
*Pythium myriotylum*, tobacco 4770
*Pythium ultimum*
cucumbers 4603
peat 746
*Rhizoctonia solani*
chickpeas 4497
cowpeas 7624
soyabeans, diseases 1482
wheat, diseases 1379
culture media
conidia 1891
storage 1891
culture techniques 146
hyperparasitism
*Corticium rolfsii* 8167
*Rhizoctonia solani* 1299, 8167
laboratory tests
benomyl 4955
heavy metals 5741
plant extracts 1833
molecular genetics
enzymes 113
genetic transformation 1296
physiology, enzymes 113, 1889, 4176
*Pinus gerardiana*, seeds 8791
production, antibiotics 6460, 7264
protoplast fusion 6572
seed treatment, cucumbers 8167
***Trichoderma koningii***
activity
*Leucostoma cinctum*, apricots 2971
*Pseudomonas syringae* pv. *syringae*, apricots 2971
soyabeans 1487
antagonism
*Colletotrichum graminicola* 6707
*Corticium rolfsii* 1487
*Sclerotinia sclerotiorum* 740, 4177
biochemistry, metabolites 3318
control
*Alternaria raphani*, radishes 2869
*Corticium rolfsii*, tomatoes 8564
*Leucostoma cinctum*, apricots 2230
*Rhizoctonia solani*, *Vigna angularis* 6023
*Verticillium dahliae*, *Capsicum* 441
soil, Germany 3125
***Trichoderma lignorum***
antagonism
*Fusarium oxysporum* f.sp. *psidii* 5454
*Gibberella fujikuroi* 5454
***Trichoderma longibrachiatum***
antagonism, *Fusarium oxysporum* f.sp. *sesami* 2327
control, *Rhizoctonia solani*, rice 7554
laboratory tests
benomyl 4955
chitinase 3355
β-glucanase 3355
molecular genetics
gene expression 8165
genome analysis 743
nucleotide sequences 8165
***Trichoderma piluliferum***
antagonism
*Fusarium longipes* 5454
*Fusarium oxysporum* f.sp. *psidii* 5454
soil, Germany 3125
***Trichoderma polysporum***
*Picea abies*
Germany 8799
pathogenicity 8799
soil pH 7945
soil, Germany 3125
***Trichoderma pseudokoningii***
antagonism, *Colletotrichum graminicola* 6707
control, *Rhizoctonia solani*, tomatoes 8558
culture media 4174
***Trichoderma vaccinum***, *Picea abies*, mycorrhizas 3332
***Trichoderma viride***
antagonism
*Alternaria radicina* 2169
*Botrytis allii* 6072
*Colletotrichum graminicola* 6707
*Corticium rolfsii* 1487
*Fusarium oxysporum* f.sp. *psidii* 5454
*Rhizoctonia solani* 4441, 7343
*Sclerotinia sclerotiorum* 2169, 8510
*Sclerotinia squamosa* 6072
control
*Alternaria linicola*, linseed 3891
*Botrytis allii*, onions 4548
*Botrytis cinerea*
kiwifruits 7791
strawberries 8629
*Botrytis fabae*, faba beans 4472
*Crinipellis perniciosa*, *Trichoderma viride*, cocoa 7051
fruit, storage decay 7428
*Phellinus noxius*, *Hevea brasiliensis* 5524
potatoes, storage decay 7428
*Sclerotinia sclerotiorum*, cucumbers 6134, 6901
*Verticillium dahliae*, cotton 1136
culture, environmental factors 4195
culture media 4174, 6579
laboratory tests
plant extracts 2481, 8121
plant oils 8119
molecular genetics
gene expression 6538
genetic engineering 145
genetic transformation 1296
mushrooms
physiology 8837
resistance 4017
*Picea abies*
Norway 3159
soil pH 7945
succession 3159
production, antibiotics 6460
soil
Germany 3125
mulching 747
straw 1893
tobacco
elicitors 8732
ethylene 4771, 8732
host parasite relationships 4771
pathogenesis-related proteins 8732
**Trichodermin**
control
crops, diseases 1369
*Fusarium oxysporum* f.sp. *lycopersici*, tomatoes 6868
***Tricholoma magnivelare***
*Pinus contorta*, mycorrhizas 4968
*Pseudotsuga menziesii*, mycorrhizas 4968
***Tricholoma robustum***
biochemistry, gluconic acid 702
spore germination 4969
***Tricholoma terreum***, *Pinus*, mycorrhizas 4972
***Trichoscyphella willkommii***, *Larix decidua*, Switzerland 1720
***Trichosporium vesiculosum***, *Casuarina equisetifolia*, mycorrhizas 5541
***Trichosporon***, control, *Botrytis cinerea*, apples 6150
***Trichothecium roseum***
cotton, Shanxi 6280
grapes
Indian Punjab 3859
varietal reactions 3859
hyperparasitism, *Pestalotiopsis funerea* 4826
*Pinus gerardiana*, seeds 8791
squashes, West Bengal 755
**Tricyclazole**
activity, *Pyricularia oryzae* 3643
adsorption, soil 4949
control
*Cladosporium herbarum*, rice 5226
*Cochliobolus miyabeanus*, rice 5963
*Pyricularia oryzae*, rice 5962, 7544, 8373, 8376
rice, diseases 325
seed treatment, rice 5963, 6733
**Tridemorph**
activity
*Macrophomina phaseolina* 111
soil flora 2480
*Trifolium repens* 340
*Ustilago zeae* 8094
control
*Alternaria alternata*, chickpeas 968
*Colletotrichum capsici*, *Capsicum* 2204
*Erysiphe cruciferarum*, Indian mustard 3756
*Erysiphe graminis*, wheat 2639
*Erysiphe polygoni*
*Vigna mungo* 5281
*Vigna radiata* 383
*Ganoderma boninense*, oil palms 2315
*Mycosphaerella arachidis*, groundnuts 3073
*Mycosphaerella berkeleyi*, groundnuts 3073
*Mycosphaerella cruenta*, *Vigna mungo* 5281
*Oidium erysiphoides*, *Ziziphus mauritiana* 4685
*Puccinia arachidis*, groundnuts 3073
*Puccinia striiformis*, wheat 2639
*Rhynchosporium secalis*, barley 3585, 5899
*Sarocladium oryzae*, rice 3650
wheat, diseases 835
fungicide tolerance, *Erysiphe graminis*, barley 867
seed treatment, lentils 7618
***Trientalis europaea***
*Urocystis trientalis*
ecology 631
Sweden 631
**Triflumizole**
control
*Botryosphaeria dothidea*, apples 4613
*Magnaporthe grisea*, *Stenotaphrum secundatum* 1726
wheat, diseases 3515
fungicide tolerance, *Sphaerotheca macularis* 2245
**Trifoliate oranges** (*see Poncirus trifoliata*)
***Trifolium***
*Ascochyta rabiei*, pathogenicity 2140
broad bean stain comovirus, immunodiagnosis 4279
clover club leaf, rickettsia-like organisms 2769
diseases, seed treatment 934
*Fusarium*, testing 780
*Glomus*, mycorrhizas, growth 2524
*Glomus mosseae*, mycorrhizas, growth 2524
phyllody
characteristics 6593
mycoplasma-like organisms 6593
red clover mottle comovirus, immunodiagnosis 4279
*Sclerotinia trifoliorum*, varietal reactions 4460
***Trifolium alexandrinum***, *Glomus intraradices*, mycorrhizas, nitrogen 6485

***Trifolium pratense***
*Acaulospora scrobiculata*
mycorrhizas
burning 5722
clipping 5722
alfalfa mosaic alfamovirus, serology 8547
bean yellow mosaic potyvirus, varietal reactions 8418
*Fusarium*
biochemistry 3671
resistance 3671
screening 8419
*Fusarium oxysporum*
breeding 936
mixed infections 3672
resistance 5987
selection 349
varietal reactions 1475, 3672
*Fusarium solani*
breeding 936
mixed infections 3672
resistance 5987
varietal reactions 1475, 3672
*Gibberella avenacea*
insects 5236
mixed infections 3672
Nematoda 3669
roots 5236
varietal reactions 3672
West Virginia 5236
yield losses 3669
*Glomus aggregatum*
mycorrhizas
manganese 722
soil bacteria 722
*Glomus mosseae*
mycorrhizas
enzymes 4147
manganese 722
soil bacteria 722
*Glomus occultum*, mycorrhizas, extraction 7300
*Kabatiella caulivora*
culture media 3670
environmental factors 3670
inoculation 3670
mycorrhizas
ecology 8143
growth 8144
nutrient uptake 8144
red clover vein mosaic carlavirus
characteristics 209
Lithuania 209
*Rhizoctonia*, New Zealand 5237
root rots, control 8420
*Sclerotinia trifoliorum*
control 2771, 7564
France 2771
Ohio 7564
varietal reactions 2771
*Uromyces trifolii*
ecology 3668
herbivory 3668
***Trifolium repens***
clover yellow vein potyvirus
Czechoslovakia 935
transmission 935
*Colletotrichum trifolii*, sulfur dioxide 5834
*Cymadothea trifolii*, infection 4459
diseases
assessment 7582
control 348, 7583
epidemiology 4457
North Carolina 4457, 7582
yield losses 348
fungicides, activity 340
*Glomus*, mycorrhizas, flavonoids 2514
*Glomus mosseae*
mycorrhizas
nutrients 4170
phosphorus 4992
soil pH 4992
water 4170
leaf spot, North Carolina 2096
mycoplasma-like organisms, DNA probes 8234
mycorrhizas
disturbed soils 6491
New South Wales 6491
***Trifolium repens*** *cont.*
phyllody
DNA 1474
mycoplasma-like organisms 1474
tissue culture 1474
transmission 1474
*Pseudomonas corrugata*, hypersensitivity 8251
soybean dwarf luteovirus
detection 6756
Hokkaido 6757
strains 6757
***Trifolium subterraneum***
alfalfa mosaic alfamovirus, yield losses 925
bean yellow mosaic potyvirus, yield losses 925
cucumber mosaic cucumovirus, yield losses 925
*Kabatiella caulivora*, host parasite relationships 2770
mycorrhizas
disturbed land 5738
infectivity 5738
phosphorus 8142
*Phytophthora clandestina*
isolation 8421
Victoria 8421
*Scutellospora calospora*, mycorrhizas, phosphorus 5718
subterranean clover mottle sobemovirus
host range 2094
seeds 4458
transmission 2094
varietal reactions 2094
Western Australia 4458
yield losses 4458
viruses, Australia 2095
***Trifolium vesiculosum***, mycorrhizas, phosphorus 4164
**Triforine**
activity, guavas, wilt 7805
control
*Entomosporium mespili, Photinia fraseri* 3996
*Heterosporium echinulatum*, carnations 3183
*Marssonina brunnea, Populus* 3138
*Phytophthora palmivora*, cocoa 557
*Puccinia horiana*, chrysanthemums 4867
*Puccinia psidii*, guavas 3886
*Uromyces appendiculatus, Phaseolus vulgaris* 1493
fungicide tolerance
*Monilinia fructicola* 7747
*Sphaerotheca macularis* 2245
*Venturia inaequalis* 7736
persistence, sour oranges 4674
***Triglochin procera, Alternaria triglochinicola***, Australia 7987
***Trigonella foenum-graecum*** (*see* Fenugreek)
***Trinacrium iridis***
*Iris ensata*
Honshu 1738
taxonomy 1738
**Trinidad and Tobago**
cowpeas, *Corynespora cassiicola* 4266
cucumbers, *Corynespora cassiicola* 4266
pigeon peas, seedborne fungi 4499
sugarcane, diseases 3082
tomatoes, *Corynespora cassiicola* 4266
***Trioza erytreae***, transmission, citrus greening 3018, 5444
**Triphenyltin hydroxide**
control
*Cladosporium caryigenum*, pecans 4692-4693
*Glomerella cingulata*, pecans 4693
rice, diseases 325
***Tripospermum myrti***
mangoes
control 1610
Uttar Pradesh 1610
***Tripsacum dactyloides***
maize dwarf mosaic potyvirus, Kansas 5977
sugarcane mosaic potyvirus, Kansas 5977
**Trithionates**, antifungal properties 7241
**Triticale** (*Triticum* × *Secale*)
*Alternaria alternata*, Moldova 875
**Triticale** *cont.*
barley yellow dwarf luteovirus, genetics 4296
*Claviceps purpurea*
fertilizers 3592
fungicides 3592
diseases
control 5183
Poland 8342
screening 8342
*Erysiphe graminis*
control 1386
Romania 1386
varietal reactions 1386
flame chlorosis, Manitoba 6693
*Fusarium*, Moldova 875
*Gaeumannomyces graminis*
cultural methods 5849
UK 5849
*Gibberella zeae*, Moldova 875
*Hymenula cerealis*, varietal reactions 2625
*Leptosphaeria nodorum*
epidemiology 8341
testing 8341
varietal reactions 8343
*Pseudocercosporella herpotrichoides*, varietal reactions 8344
*Puccinia graminis*
Australia 1390
pathotypes 1390
*Septoria*
control 1386
Romania 1386
varietal reactions 1386
wheat streak mosaic rymovirus, cytology 818
***Triticum***
*Pseudocercosporella herpotrichoides*
breeding 3497
resistance 3497
***Triticum aestivum*** (*see* Wheat)
***Triticum dicoccoides***
*Erysiphe graminis*
Israel 8296
Kenya 8296
screening 8296
*Puccinia striiformis*
Israel 8296
Kenya 8296
screening 8296
***Triticum durum*** (*see* Wheat)
***Triticum* × *Secale*** (*see* Triticale)
***Triticum spelta, Erysiphe graminis***, breeding 2669
**Tritordeum**
*Mycosphaerella graminicola*, breeding 3543
*Puccinia hordei*
histology 3503
host parasite relationships 3503
*Puccinia recondita*
histology 3503
host parasite relationships 3503
**Tropical crops**, fungi, characteristics 1305
**Tropical fruits**
*Colletotrichum*
host parasite relationships 6975
latent infections 6975
*Glomerella cingulata*, isolates 6974
**Tropics**
crops, *Glomerella cingulata* 6617
integrated pest management 4906
plant diseases, biological control 1973
***Tsuga heterophylla, Glomus***, mycorrhizas, Washington 5726
***Tsuga mertensiana, Glomus***, mycorrhizas, Washington 5726
***Tubakia dryina***
*Quercus cerris*, Italy 7912
*Quercus rubra*, toxins 2386
***Tuber***
hazelnuts, mycorrhizas 6479
taxonomy, spores 6566
***Tuber albidum, Pinus pinea***, mycorrhizas 8125
***Tuber magnatum***
*Populus*, mycorrhizas 2500
*Quercus*, mycorrhizas 2491
*Tilia*, mycorrhizas 2500
trees, mycorrhizas 1848

**Tubiging,** control, *Dothiorella gregaria, Populus* 8775
***Tulasnella asymetrica,*** *Cattleya,* mycorrhizas 7311
***Tulasnella calospora,*** *Dactylorhiza majalis,* mycorrhizas 1276
**Tulip band breaking virus**
*Lilium,* identification 7966
tulips, identification 7966
**Tulip breaking potyvirus**
*Lilium,* identification 7966
tulips, identification 7966
**Tulip top breaking virus**
*Lilium,* identification 7966
tulips, identification 7966
***Tulipa gesneriana*** (*see* Tulips)
**Tulips** (*Tulipa gesneriana*)
*Botrytis,* control 6346
*Pseudomonas andropogonis*
Japan 7970
symptoms 7970
*Pseudomonas gladioli*
Japan 7970
symptoms 7970
*Puccinia prostii,* Iran 6550
*Pythium,* biological control 618
*Rhizoctonia solani,* soil biology 620
tip-burn, biological control 619
viruses, identification 7966
**Tunisia**
chickpeas, *Ascochyta rabiei* 1479
faba beans
*Ascochyta fabae* 1479
*Uromyces viciae-fabae* 1479
peas, *Erysiphe polygoni* 1479
potatoes, *Erwinia* 7652
**Turf** (*see* Lawns and turf)
**Turkey**
aubergines, tobacco mosaic tobamovirus 1009
*Capsicum,* tobacco mosaic tobamovirus 1009
chickpeas, *Ascochyta rabiei* 2137
*Crepis echiodes, Spiroplasma citri* 5111
crops
*Fusarium* 760
*Phytophthora* 810
*Echium, Spiroplasma citri* 5111
fungi 1306
grapes, diseases 7782
greenhouse crops, *Botrytis cinerea* 5831
lettuces, lettuce mosaic potyvirus 4559
lucerne, alfalfa mosaic alfamovirus 346
pears, *Erwinia amylovora* 457, 1582
*Phaseolus vulgaris,* diseases 366
plant diseases
legislation 2485
soil solarization 4210
plant extracts, antifungal agents 2483
plant oils, antifungal agents 2483
plants
fungi 7362
viruses, bibliographies 785
potatoes
*Spongospora subterranea* 406
viruses 2824
quinces, *Erwinia amylovora* 457
sesame, *Spiroplasma citri* 5111
*Sinapis arvensis,* lettuce mosaic potyvirus 4559
squashes, zucchini yellow mosaic potyvirus 4597
sunflowers, *Plasmopara halstedii* 520
tomatoes
diseases 4567
stolbur 4576
tobacco mosaic tobamovirus 1009
watermelons, *Fusarium oxysporum* f.sp. *niveum* 6903
weeds, biological control 6365, 7996
wheat, *Xanthomonas campestris* pv. *translucens* 281
**Turkmenistan,** tomatoes, *Fusarium oxysporum* f.sp. *lycopersici* 6868
**Turmeric** (*Curcuma longa*)
plant extracts, antifungal agents 6999
plant oils, antifungal agents 1834
**Turnip crinkle carmovirus**
*Arabidopsis thaliana*
host parasite relationships 2582
varietal reactions 2582
**Turnip crinkle carmovirus** *cont.*
molecular genetics, satellite RNA 1946
turnips, molecular genetics 5309
**Turnip mosaic potyvirus**
*Brassica nigra,* transmission 4552
cabbages, breeding 2864
characteristics 3448
Chinese cabbages
mixed infections 995
ultrastructure 995
immunodiagnosis 3448
Indian mustard, varietal reactions 5308, 8668
molecular genetics
DNA amplification 798
nucleotide sequences 5064, 7407
RNA 2593
transmission 7407
*Papaver nudicaule*
characteristics 7959
Japan 7959
*Papaver somniferum,* Czechoslovakia 1743
plants, histopathology 1324
radishes
biochemistry 1534
yield losses 1534
rape, varietal reactions 8668
*Sinapis alba,* transmission 4552
vegetables, Shandong 3466
**Turnip vein-clearing virus,** turnips, characteristics 2853
**Turnip yellow mosaic tymovirus**
*Alliaria petiolata,* Czech Republic 7985
*Berteroa incana*
Germany 1187
immunodiagnosis 1187
*Cardamine lilacina*
molecular genetics 8839
New South Wales 8839
Chinese cabbages, symptoms 6844
decapsidation 5057
molecular genetics
movement proteins 6844
nucleotide sequences 5092, 6844
pathogenicity 2579
RNA 5092
**Turnips** (*Brassica campestris* var. *rapa*)
diseases
Russia 1526
storage 1526
varietal reactions 1526
*Phytophthora cryptogea*
elicitors 3467
induced resistance 3467
*Phytophthora nicotianae* var. *parasitica*
elicitors 3467
induced resistance 3467
*Plasmodiophora brassicae*
culture 8509
zoospores 8509
*Pseudomonas cichorii,* phytoalexins 4551
turnip crinkle carmovirus, molecular genetics 5309
turnip vein-clearing virus, characteristics 2853
***Tylophora***
*Pseudocercospora tylophoricola*
India 6552
taxonomy 6552
***Typha angustata,*** diseases, Haryana 8859
***Typhula incarnata,*** wheat, immunodiagnosis 279
***Typhula ishikariensis***
wheat
immunodiagnosis 279
varietal reactions 4349
**Uganda**
bananas, *Mycosphaerella fijiensis* 6201
cassava, African cassava mosaic bigeminivirus 6832
groundnuts, *Aspergillus* 5478
maize, *Setosphaeria turcica* 4391
wheat, diseases 8273
**UK**
adjuvants, legislation 6427
apples
*Nectria galligena* 2958, 6148
*Podosphaera leucotricha* 2954
barley
*Erysiphe graminis* 867, 3578, 8331
**UK** *cont.*
barley *cont.*
*Gaeumannomyces graminis* var. *tritici* 291
*Puccinia hordei* 3567
*Rhynchosporium secalis* 6687
*Brassica, Plasmodiophora brassicae* 8514
Brussels sprouts
*Mycosphaerella brassicicola* 8515
*Pyrenopeziza brassicae* 8515
cauliflowers, *Pseudomonas syringae* pv. *maculicola* 8517
cereals
barley yellow dwarf luteovirus 4299
diseases 8265-8266
*Gaeumannomyces graminis* 5849
seed treatment 6420
seedborne fungi 8268
viruses 2621
crops, diseases 133
*Fagus sylvatica*
decline 3970, 5536
fungi 1150
*Festuca, Sclerotinia homoeocarpa* 5565
*Fraxinus excelsior*
decline 5538
fungi 1150, 1155
grasslands, mycorrhizas 1261
linseed
diseases 5464, 8673
*Sclerotinia sclerotiorum* 8667
marrows, zucchini yellow mosaic potyvirus 2208
peas
pea seed-borne mosaic potyvirus 5268
*Sclerotinia sclerotiorum* 8250
pesticide residues, food 4067
pesticides
databases 5662
disposal 62
environmental impact 3301
information 5661
legislation 62, 2453, 6427, 8043
public health 3301
registration 3276
safety 5664
usage 3262
*Pinus contorta, Ramichloridium pini* 5552
*Platanus acerifolia, Apiognomonia veneta* 5543
potatoes
diseases 6031-6032, 8486
*Erwinia carotovora* subsp. *atroseptica* 407
fungi 6815
*Fusarium solani* var. *coeruleum* 984
*Phytophthora infestans* 2837, 6818, 8489
*Polyscytalum pustulans* 984
potato leaf roll luteovirus 2151, 8478
potato Y potyvirus 7639
*Pseudomonas solanacearum* 7653
*Sclerotinia sclerotiorum* 8250
*Pteridium aquilinum, Stagonospora pteridiicola* 7163
*Quercus robur,* fungi 1150
rape
*Alternaria brassicae* 8671
diseases 2297, 7427
*Leptosphaeria maculans* 8671
*Mycosphaerella capsellae* 8672
*Pyrenopeziza brassicae* 8671
*Sclerotinia sclerotiorum* 7016, 8250, 8667
*Unguicularia* 1092
raspberries, diseases 4632
roses, diseases 2400
*Salix, Melampsora* 4812, 7922
*Senecio vulgaris, Erysiphe cichoracearum* var. *fischeri* 8854-8855
soil, *Tilletia tritici* 8302
sugarbeet
*Aphanomyces cochlioides* 5489
beet necrotic yellow vein furovirus 5487
beet yellows closterovirus 8706
diseases 534

**UK** *cont.*
sugarbeet *cont.*
*Erysiphe betae* 3918
*Fusarium culmorum* 5489
*Helicobasidium purpureum* 5489
sunflowers, *Sclerotinia sclerotiorum* 8667, 8676
*Vulpia ciliata* subsp. *ambigua*, mycorrhizas 4995
wheat
diseases 7427, 7447, 8281, 8286-8287
*Fusarium* 8323
*Gaeumannomyces graminis* var. *tritici* 8313-8314
*Pseudocercosporella herpotrichoides* 8318
*Puccinia recondita* 3532
*Puccinia striiformis* 8297
*Tilletia tritici* 8302
**Ukraine**
Ascomycotina 6557
Coelomycetes 3395, 6557
cotton, *Stemphylium macrosporioideum* 2362
cucumbers, *Pseudoperonospora cubensis* 1563
Erysiphales 3396
forest trees
diseases 3127
wood destroying fungi 6289
Loculoascomycetes 3395
maize, diseases 4384
ornamental plants, *Alternaria* 5564
peas, root rots 952
pesticides, disposal 6433
potatoes, bacteria 1516
red currants, mycoplasma-like organisms 475
rice, *Pyricularia oryzae* 913
rye, *Pseudomonas syringae* pv. *atrofaciens* 6692
sugarbeet, diseases 8704
*Vaccinium*
*Diplodina eurhododendri* 2243
*Penicillium expansum* 2243
wheat, diseases 252, 8276
***Ulmus***
*Ceratocystis ulmi*
control 7102
karyotypes 6297
reviews 7102
Spain 7102
varietal reactions 3122
*Ophiostoma novo-ulmi*, karyotypes 6297
***Ulmus americana***
*Ceratocystis ulmi*
integrated control 8776
Manitoba 8776
toxins 3142
vectors 8776
*Xylella fastidiosa*, pathogenicity 4815
***Ulmus minor***
*Ceratocystis ulmi*, Italy 7955
*Pseudomonas fluorescens*, ice nucleation 4816
***Ulmus pumila,*** *Botryodiplodia hypodermia*, screening 8777
***Ulocladium,*** cotton, toxins 3954
***Ulocladium atrum,*** *Orobanche crenata*, biological control 4030
***Ulocladium chartarum***
apples
control 2962
storage 2962
pawpaws
control 2962
storage 2962
**Ultraviolet radiation**
activity
*Cryphonectria parasitica* 2291
*Erysiphe graminis*, wheat 7469
*Trichoderma pseudokoningii* 8558
control, grapefruits, postharvest decay 6207
**Umbelliferae**
fungi, Lithuania 2555
*Plasmopara*, taxonomy 779
***Uncinula necator***
grapes
Australia 482
***Uncinula necator*** *cont.*
grapes *cont.*
control 482, 2986, 4651, 6961, 6966
forecasting 2989
fungicide tolerance 7783
Germany 2989
Greece 4651
Mexico 6966
New Zealand 7783
population dynamics 5426
reviews 6967
sulfur dioxide 5834
sustainability 2251
temperature 5426
*Trichoderma harzianum*, antagonism 4176
***Uncinula salicis,*** *Populus*, Himachal Pradesh 7919
***Uncinuliella rosae* var. *pruni***
*Prunus divaricata*
taxonomy 6155
Xinjiang 6155
***Unguicularia,*** rape, UK 1092
***Uniola paniculata***
*Glomus*, mycorrhizas, dunes 4149
*Glomus globiferum*
mycorrhizas
Florida 6487
spores 6487
**United Arab Emirates**
*Citrullus colocynthis*, viruses 5356
melons, viruses 5354
watermelons, viruses 5356
**Upper Volta** (*see* Burkina Faso)
**Urea**
activity
peas, soil fungi 6790
*Pyrenophora graminea*, barley 5897
control, *Polystigma ochraceum*, almonds 6222
**Uredinales**
Germany 6556
host parasite relationships 5006
reviews 5007
identification 6574
Iran 6550
Maharashtra 3397
Romania 1900
Spain 6548
biogeography 2551
taxonomy 6556
***Uredo alpestris,*** Romania 1900
***Uredo phyllanthi-nirurae,*** Maharashtra 3397
***Uredo sissoo***
*Dalbergia sissoo*
Nepal 5545
screening 5545
***Urocystis agropyri***
wheat
genetics 2665
Haryana 2685
sowing date 2685
testing 8304
***Urocystis trientalis***
*Trientalis europaea*
ecology 631
Sweden 631
***Uroleucon compositae,*** transmission, safflower mosaic virus 7821
***Uromyces***
host parasite relationships 5006
*Lotus corniculatus*, hyperparasites 2774
*Sphaerellopsis filum*, hyperparasitism 2774
*Trifolium repens*
assessment 7582
North Carolina 2096, 7582
***Uromyces alyxiae* var. *australiensis***
*Alyxia ruscifolia*
Queensland 5608
taxonomy 5608
***Uromyces appendiculatus***
cowpeas
China 351
host parasite relationships 384
integrated pest management 2145
varietal reactions 351
yield losses 2145
haustoria, isolation 1291
laboratory tests, hydantoins 3289
***Uromyces appendiculatus*** *cont.*
molecular genetics
genetic transformation 368, 7327
infection 2532
restriction fragment length polymorphism 3414
*Phaseolus vulgaris*
appressoria 4477
biological control 5260
Brazil 4479
breeding 944, 3686
China 351
control 1493, 5261-5262
differentiation 4479
epidemiology 2122
genetics 8442
Honduras 3686
host parasite relationships 945
hypersensitivity 945
intercropping 2123
molecular genetics 4475
preservation 5263
races 4479, 5263
resistance 2796
São Paulo 5261-5262
screening 7607
spore dispersal 2123
varietal reactions 351, 2122, 2796
***Uromyces appendiculatus* var. *crassitunicatus,*** molecular genetics, restriction fragment length polymorphism 3414
***Uromyces betae***
sugarbeet
control 1122
France 1122
***Uromyces ciceris-arietini,*** chickpeas, control 378
***Uromyces dianthi,*** IMI distribution maps 3389
***Uromyces ferulae,*** *Ferula*, Iran 6550
***Uromyces ficariae,*** *Ficaria ranunculoides*, Iran 6550
***Uromyces glycyrrhizae***
liquorice
epidemiology 5602
Xinjiang 5602
***Uromyces heliotropii***
*Heliotropium europaeum*
Australia 2429, 7167
biological control 2429, 7167
host range 2429
***Uromyces kamusii,*** *Euphorbia esula*, Nei Menggu 5611
***Uromyces kochiae,*** Romania 1900
***Uromyces limonii***
*Limonium vulgare*
heterothallism 2420
host parasite relationships 2420
Netherlands 2420
***Uromyces pisi,*** peas, control 3696
***Uromyces rumicis,*** spores, carbohydrates 3380
***Uromyces setariae-italicae***
*Setaria italica*
China 2723
varietal reactions 2723
***Uromyces striatellus,*** *Euphorbia esula*, Nei Menggu 5611
***Uromyces striatus,*** *Euphorbia esula*, Nei Menggu 5611
***Uromyces trifolii***
*Trifolium pratense*
ecology 3668
herbivory 3668
***Uromyces urgineae,*** Liliaceae, Maharashtra 4007
***Uromyces valerianae***
*Valeriana sambucifolia*
ecology 631
Sweden 631
***Uromyces viciae-fabae***
faba beans
adhesion 948
chloroplasts 2788
control 2113, 6450, 8256
enzymes 2116
induced resistance 8432
infection 2116
pectinesterase 2112
Tunisia 1479
urediospores 948

***Uromyces viciae-fabae* cont.**
faba beans *cont.*
varietal reactions 2111
yield losses 2111
haustoria, isolation 1291
lentils
genetics 4486-4487
selection 6795
varietal reactions 4486
peas
integrated pest management 2129
varietal reactions 4482, 6791
spore germination 5009-5010
spores, carbohydrates 3380
***Uromycladium tepperianum***
*Acacia saligna*
biological control 7993
South Africa 7993
**Uruguay,** *Eucalyptus globulus*, fungi 7090
**USA**
adjuvants, legislation 8080
apples, diseases 3819
asparagus
*Fusarium oxysporum* f.sp. *asparagi* 8526
*Gibberella fujikuroi* 8526
biological control agents
environmental impact 3220
legislation 3220
cereals, *Puccinia graminis* 4302-4303
chestnuts, *Cryphonectria parasitica* 2290, 2292, 3040
cotton
diseases 1133
*Pythium ultimum* 5515
*Rhizoctonia solani* 5515
cowpeas, *Cladosporium vignae* 769
*Equisetum*, mycorrhizas 6499
forest trees, diseases 7081
fruit trees, tomato ringspot nepovirus 3814
fungicides
application rates 30
usage 19
garlic, diseases 6069
groundnuts, diseases 8695
*Impatiens walleriana, Verticillium dahliae* 6342
integrated pest management, public authorities 4910
lawns and turf, diseases 6332
*Lespedeza bicolor, Cladosporium vignae* 769
lucerne, *Aphanomyces euteiches* 7579
maize
*Cercospora zeae-maydis* 5922
diseases 5912
nectarines, diseases 7753
onions, diseases 6069
peaches, diseases 7753
pesticide residues
detection 50
regulation 47-48
pesticides 3264
legislation 1229-1231, 4073, 4075, 5678, 5692, 7233, 8043, 8081
nontarget effects 4073
registration 677, 680, 1232-1233, 7212, 8058
regulation 1234
safety 3275
*Picea rubens*, decline 7942
plant diseases
biological control 1971
integrated pest management 223
potatoes
potato leaf roll luteovirus 8479
potato Y potyvirus 2829
rice, fungicides 5951
*Sequoia sempervirens*, fungi 7107
soil
*Armillaria* 4213
mycorrhizas 6486
sorghum, mycorrhizas 6486
soyabeans, mycorrhizas 6486
strawberries, diseases 6169
tobacco, potato Y potyvirus 2829
tomatoes, diseases 6090
wheat, diseases 5132
*Xylaria* 7377

**USA** *cont.*
Alabama
cotton, *Fusarium oxysporum* f.sp. *vasinfectum* 1135, 3116
groundnuts
*Aspergillus flavus* 7028
*Corticium rolfsii* 1102
*Mycosphaerella berkeleyi* 8692
pecans
*Cladosporium caryigenum* 4693
*Glomerella cingulata* 4693
*Pinus taeda*, mycorrhizas 4126
*Stenotaphrum secundatum, Gaeumannomyces graminis* var. *graminis* 4860
Alaska
*Alnus crispa*, mycorrhizas 7285
forests, mycorrhizas 6466
*Populus balsamifera*, mycorrhizas 7284-7285
Alberta, *Pinus contorta, Endocronartium harknessii* 8785
Arizona, *Eucalyptus, Erysiphe cichoracearum* 1152
Arkansas
*Aeschynomene virginica, Colletotrichum gloeosporioides* f.sp. *aeschynomene* 3210
cereals, diseases 7434
crops, barley yellow dwarf luteovirus 5133
*Festuca arundinacea, Acremonium coenophialum* 5133
horticultural crops, diseases 5820
marrows, viruses 6129
*Platanus occidentalis*
*Botryodiplodia theobromae* 5540
*Ceratocystis fimbriata* 5540
spinach, *Colletotrichum dematium* 8518
weeds, biological control 4022
wheat, barley yellow dwarf luteovirus 5133
California
*Abies concolor*, sulfur dioxide 594
*Abies lasiocarpa*, sulfur dioxide 594
almonds
almond brown line and decline 513
prune dwarf ilarvirus 8255
prunus necrotic ringspot ilarvirus 8255
*Verticillium dahliae* 5835
apples, diseases 7727
apricots, *Verticillium dahliae* 5835
avocados, *Xanthomonas campestris* 3038
*Brachychiton populneus, Botryodiplodia theobromae* 608
broccoli, diseases 7229
citrus, *Penicillium ulaiense* 6989
cucumber mosaic cucumovirus, strains 2592
figs
*Fusarium solani* 7788
*Gibberella fujikuroi* 7788
*Microdochium dimerum* 7788
*Foeniculum vulgare, Pseudomonas syringae* 7156
grapes
leafroll 5425
viroids 1070
Indian mustard, beet curly top intergeminivirus 6843
kiwifruits
*Pseudomonas syringae* 5430
*Pseudomonas viridiflava* 5430
lettuces, *Fusarium oxysporum* f.sp. *lactucum* 8519
lucerne
*Fusarium* 7576
*Pythium* 7576
*Rhizoctonia solani* 7576
viruses 4454
maize, maize dwarf mosaic potyvirus 7496
melons, diseases 4291
*Ocimum basilicum, Fusarium oxysporum* 7154
peaches
prune dwarf ilarvirus 8255

**USA** *cont.*
California *cont.*
peaches *cont.*
prunus necrotic ringspot ilarvirus 8255
pears, diseases 7727
pesticide residues, monitoring 46
pesticides
registration 7231
usage 7229, 7231
*Phalaenopsis*, tomato spotted wilt tospovirus 1739
*Picea engelmannii*, sulfur dioxide 594
*Pinus lambertiana, Cronartium ribicola* 8789
*Pinus ponderosa*, sulfur dioxide 594
*Pinus radiata, Endocronartium harknessii* 7937
pistachios, *Botryosphaeria dothidea* 7812
plums, *Phomopsis cinerascens* 2973
*Pseudotsuga menziesii*, sulfur dioxide 594
*Sequoiadendron giganteum, Phytophthora citrophthora* 7947
*Sinapis alba*, beet curly top intergeminivirus 6843
soil
*Fusarium oxysporum* 739, 5036, 7354
*Phytophthora nicotianae* var. *parasitica* 7682
*Pyrenochaeta lycopersici* 7682
*Pythium acanthicum* 123
*Pythium oligandrum* 123
*Pythium periplocum* 123
spinach, *Colletotrichum dematium* 5317, 8518
*Stenotaphrum secundatum, Gaeumannomyces graminis* var. *graminis* 6751
tomatoes
big bud 5323
diseases 4291
pesticide residues 2896
*Phytophthora nicotianae* var. *parasitica* 7682
*Pyrenochaeta lycopersici* 7682
Colorado
*Euphorbia esula*
*Rhizoctonia* 8860
*Rhizoctonia solani* 8860
*Festuca arizonica, Acremonium* 7166
*Mahonia repens*
*Kabatina mahoniae* 1177
*Selenophoma mahoniae* 1177
*Tectacervulus mahoniae* 1177
*Phaseolus vulgaris, Fusarium oxysporum* f.sp. *phaseoli* 6777
Connecticut
*Acer palmatum, Colletotrichum acutatum* 5558
asparagus
*Fusarium oxysporum* 8527, 8529
*Gibberella fujikuroi* 8527, 8529
chestnuts, *Cryphonectria parasitica* 7810
*Cornus florida, Colletotrichum acutatum* 7106
Florida
*Acer rubrum, Septoria aceris* 1703
*Agrostis stolonifera, Magnaporthe poae* 6334
*Caryota mitis, Pseudomonas avenae* 8821
*Catharanthus roseus, Colletotrichum dematium* 6340
citrus
diseases 6980
*Glomerella cingulata* 2265, 6988
*Cornus florida, Colletotrichum acutatum* 3172
crops, manganese, toxicity 4278
*Echinodorus osiris, Cercospora osirisae* 773
endives, tobacco streak ilarvirus 421
grapefruits
*Glomerella cingulata* 7796
*Phytophthora nicotianae* var. *parasitica* 7798

**USA** *cont.*
Florida *cont.*
groundnuts
peanut mottle potyvirus 8681
peanut stripe potyvirus 8681
*Heliconia, Calonectria spathiphylli* 7382
lettuces
*Rhizomonas suberifaciens* 4565
tobacco streak ilarvirus 421
oranges
*Glomerella cingulata* 5441, 7796
*Phytophthora nicotianae* var. *parasitica* 6986
ornamental plants, magnesium, deficiency 4876
*Panicum maximum, Bipolaris sacchari* 3209
*Panicum repens*
*Fusarium* 5610
*Phoma* 5610
pesticide residues, monitoring 46
*Pinus elliottii, Cronartium fusiforme* 6305
*Pinus taeda, Cronartium fusiforme* 6305
plants, diseases 1961
rice
*Gaeumannomyces graminis* var. *graminis* 4434
*Pyrenochaeta oryzae* 1459
rough lemons, mycorrhizas 4160
soil, *Phytophthora nicotianae* var. *parasitica* 7798
sour oranges, mycorrhizas 4160
*Spathiphyllum, Cylindrocladium spathiphylli* 1740
*Stenotaphrum secundatum, Gaeumannomyces graminis* var. *graminis* 4860
strawberries
*Colletotrichum* 1063
*Colletotrichum acutatum* 7770
*Glomerella cingulata* 7770
*Thunbergia, Alternaria* 4864
tobacco, *Rhizoctonia solani* 8733
tomatoes, tomato mottle geminivirus 3769, 5327
*Uniola paniculata, Glomus globiferum* 6487
Georgia
apples, diseases 3817
cotton, *Rhizoctonia solani* 3112
grapes, *Cristulariella moricola* 8635
groundnuts
*Corticium rolfsii* 3070
fungi 8693
*Mycosphaerella berkeleyi* 3070
tomato spotted wilt tospovirus 8680
Jerusalem artichokes
*Coleosporium helianthi* 5302
*Erysiphe cichoracearum* 5302
*Puccinia helianthi* 5302
ornamental plants, tomato spotted wilt tospovirus 3179
ornamental woody plants, impatiens necrotic spot virus 5556
peaches, *Botryosphaeria dothidea* 4627
pecans
*Cladosporium caryigenum* 4692
*Cristulariella moricola* 8635
*Glomerella cingulata* 4694
*Phytophthora cactorum* 4694
*Pennisetum americanum*
*Puccinia substriata* var. *indica* 2725
seedborne fungi 4407
*Photinia fraseri, Entomosporium mespili* 3996
*Pinus densiflora, Crumenulopsis atropurpurea* 1711
*Pinus elliottii, Cronartium fusiforme* 4835, 6305
*Pinus taeda*
*Cronartium fusiforme* 6305, 7115
mycorrhizas 4127
soil, fungi 7355
*Solanum carolinense*
*Erysiphe cichoracearum* 4027

**USA** *cont.*
Georgia *cont.*
*Solanum carolinense cont.*
*Rhizoctonia solani* 4027
Hawaii
carnations, *Cladosporium echinulatum* 6341
coconuts, *Phytophthora* 527
fungi, herbaria 762
*Gunnera petaloidea*, mycorrhizas 725
*Heliconia, Pseudomonas solanacearum* 5585
*Macadamia*, decline 7813-7814
mycorrhizas 7279
Orchidaceae, viruses 7142
Pteridophyta, mycorrhizas 1253
soil, *Pythium splendens* 8170
*Spathiphyllum, Cylindrocladium spathiphylli* 1740
sugarcane, diseases 532
Idaho
barley, *Rhynchosporium secalis* 870
cereals, barley yellow dwarf luteovirus 819-820
chickpeas, *Ascochyta rabiei* 2135
forests, diseases 8754, 8756
lucerne, viruses 4454
*Poa pratensis, Claviceps purpurea* 8401
Illinois
*Fraxinus*, ash yellows 3141
*Poa pratensis, Sclerophthora macrospora* 7957
*Schizachyrium scoparium*, mycorrhizas 1855
soyabeans, *Fusarium solani* 4465
*Zoysia japonica, Gaeumannomyces graminis* var. *graminis* 3176
Indiana
*Acer saccharum*, acid rain 7929
*Cornus florida*, acid rain 7929
pumpkins, *Sphaerotheca fuliginea* 7717
rape, *Rhizoctonia solani* 3044
Iowa
*Fraxinus*, ash yellows 3141
*Juniperus scopulorum, Botryosphaeria stevensii* 4822
lucerne, diseases 7575
*Populus, Mycosphaerella populorum* 585
soyabeans
*Alternaria alternata* 358
*Gibberella zeae* 358
mycorrhizas 1863
*Phomopsis longicolla* 358
Kansas
grasses
mycorrhizas 4163
wheat streak mosaic rymovirus 5134
*Tripsacum dactyloides*
maize dwarf mosaic potyvirus 5977
sugarcane mosaic potyvirus 5977
wheat
*Gibberella zeae* 2684
*Pyrenophora tritici-repentis* 2680, 5878
wheat streak mosaic rymovirus 5134
Kentucky
*Festuca arundinacea*, mycorrhizas 8146
lucerne, *Rhizoctonia solani* 2768
*Populus deltoides, Melampsora medusae* 5537, 8774
tobacco, mycorrhizas 8146
Louisiana
*Camellia, Ciborinia camelliae* 8808
*Coleus*, cucumber mosaic cucumovirus 4875
*Euphorbia pulcherrima, Corynespora cassiicola* 7127
pesticides, legislation 21
*Physalis ixocarpa*, physalis mottle virus 8604
*Physalis pubescens*, physalis mottle virus 8604
*Pinus*, diseases 4831
*Pinus taeda, Ophiostoma minus* 6309

**USA** *cont.*
Louisiana *cont.*
*Platanus occidentalis*
*Botryodiplodia theobromae* 5540
*Ceratocystis fimbriata* 5540
rice
*Achlya* 5952
*Pythium* 5952
*Rhizoctonia solani* 4436
soil, *Ustilago scitaminea* 6256
sugarcane
*Ustilago scitaminea* 6256, 8701
*Xanthomonas albilineans* 7046
Maine
potatoes
pink eye 6056
*Verticillium albo-atrum* 6056
*Verticillium dahliae* 6056
Maryland
*Cyperus esculentus, Puccinia canaliculata* 4893
*Epimedium*, viruses 5557
*Impatiens*, diseases 7958
Massachusetts
apples, diseases 459
fungi, herbaria 7383
peaches, mycoplasma-like organisms 4626
Mexico
tobacco
tobacco etch potyvirus 8717
tobacco vein mottling potyvirus 8717
Michigan
apples, *Erwinia amylovora* 7, 1048
asparagus
asparagus 2 ilarvirus 8522
asparagus 1 potyvirus 8522
*Fusarium oxysporum* 8529, 8534
*Gibberella fujikuroi* 8529, 8534
mycorrhizas 8145
cherries
*Blumeriella jaapii* 8623
*Pseudomonas syringae* pv. *morsprunorum* 5409
*Pseudomonas syringae* pv. *syringae* 5409
*Pinus resinosa*, mycorrhizas 6474
*Populus balsamifera*
*Melampsora medusae* 7917
*Mycosphaerella populorum* 7917
pumpkins, *Sphaerotheca fuliginea* 5373
soil
*Fusarium oxysporum* 8534
*Gibberella fujikuroi* 8534
mycorrhizas 8145
Minnesota
barley, *Puccinia coronata* 2690
maize, mycorrhizas 1272
*Picea, Rhizosphaera kalkhoffii* 7944
*Populus balsamifera*
*Melampsora medusae* 7917
*Mycosphaerella populorum* 7917
soyabeans, mycorrhizas 1272
wheat, root rots 251
*Zizania palustris*
*Cochliobolus miyabeanus* 2754
*Cochliobolus sativus* 2754
Mississippi
*Datura stramonium*
*Fusarium oxysporum* 4897
*Fusarium pallidoroseum* 4897
*Gibberella fujikuroi* 4897
groundnuts, tomato spotted wilt tospovirus 3064
*Populus deltoides, Melampsora medusae* 5537
rice, *Rhizoctonia solani* 5225
roses, *Marssonina rosae* 5559, 7952-7953
Missouri
*Crambe abyssinica, Xanthomonas campestris* 7848
*Fraxinus*, ash yellows 3141
soyabeans, *Fusarium solani* 7592
Montana
barley, *Arthrinium arundinis* 872
*Euphorbia esula*
*Rhizoctonia* 8860
*Rhizoctonia solani* 8860

**USA** *cont.*
Montana *cont.*
*Pinus contorta, Cronartium comandrae* 8795
Nebraska
barley, *Puccinia coronata* 2690
*Penstemon haydenii*, mycorrhizas 2510
plant pathology, computer software 4907
potatoes, *Colletotrichum coccodes* 983
sorghum, mycorrhizas 716
soyabeans, mycorrhizas 716
Nevada, forests, diseases 8754
New Hampshire
apples, *Venturia inaequalis* 6145
forest trees, *Armillaria* 7086
New Jersey
*Chamaecyparis thyoides, Mycoleptodiscus atromaculans* 1174
Ericaceae, fruit rot 7986
shade trees, diseases 3129
spinach, *Colletotrichum dematium* 8518
New Mexico
*Festuca arizonica, Acremonium* 7166
*Gutierrezia sarothrae, Puccinia grindeliae* 4895
New York
*Acer saccharum, Armillaria calvescens* 7923
apples
*Erwinia amylovora* 2933
*Pantoea agglomerans* 2933
*Pseudomonas* 2933
*Venturia inaequalis* 6145
carrots, *Erysiphe heraclei* 409
cherries, X-disease 8622
grapes
flavescence dorée 6175
yellows 6175
pears
*Erwinia amylovora* 2933
*Pantoea agglomerans* 2933
*Pseudomonas* 2933
potatoes, *Phytophthora infestans* 3715, 3717
wheat
*Leptosphaeria nodorum* 6658
wheat spindle streak mosaic bymovirus 834
North Carolina
apples
*Alternaria mali* 1579, 2226
*Botryosphaeria dothidea* 6149
*Gloeodes pomigena* 6914
*Schizothyrium pomi* 6914
*Cornus florida, Discula destructiva* 588, 3146, 7105
cucumbers, diseases 2206
groundnuts
*Mycosphaerella arachidis* 8687
*Sclerotinia minor* 8687
maize, *Cochliobolus carbonum* 8353
*Picea rubens*, decline 4847
*Pinus taeda, Gibberella fujikuroi* var. *subglutinans* 4839
*Rhododendron maximum*, mycorrhizas 1254
rhubarb, *Phoma* 2185
sweet potatoes, *Streptomyces* 4533
tobacco
tobacco etch potyvirus 8717
tobacco vein mottling potyvirus 8717
tomatoes
*Erwinia carotovora* subsp. *carotovora* 5341
*Pseudomonas corrugata* 5341
*Trifolium repens*
diseases 4457, 7582
leaf spot 2096
wheat
*Erysiphe graminis* 7453
*Puccinia recondita* 7453
North Dakota
barley, *Puccinia coronata* 2690
*Euphorbia esula*
*Rhizoctonia* 8860

**USA** *cont.*
North Dakota *cont.*
*Euphorbia esula cont.*
*Rhizoctonia solani* 8860
*Phaseolus vulgaris*, diseases 2119
sunflowers, *Plasmopara halstedii* 2307
Ohio
*Cypripedium candidum*, mycorrhizas 1277
lettuces, *Rhizoctonia solani* 2184
lucerne, *Sclerotinia trifoliorum* 7564
maize, *Cercospora zeae-maydis* 2715
*Phaseolus vulgaris, Rhizoctonia solani* 5989
soyabeans, *Rhizoctonia solani* 5989
strawberries
*Botrytis cinerea* 7772
*Colletotrichum acutatum* 477, 7772
*Phytophthora cactorum* 7772
*Taxus, Phytophthora cinnamomi* 7128
tomatoes, *Clavibacter michiganensis* subsp. *michiganensis* 6110
*Trifolium pratense, Sclerotinia trifoliorum* 7564
Oklahoma
*Cynodon dactylon, Claviceps purpurea* 929
groundnuts
pod rot 1101
*Pythium* 3071
soil, *Pythium* 3071
spinach, *Colletotrichum dematium* 8518
watermelons, fruit blotch 1568
wheat, wheat streak mosaic rymovirus 833
Oregon
*Alnus incana, Cytospora* 8768
*Alnus rubra*, mycorrhizas 3329
barley
*Rhizoctonia oryzae* 290
*Rhizoctonia solani* 290
*Rhynchosporium secalis* 870
seed treatment 2689
*Cornus stolonifera, Cytospora* 8768
*Crataegus douglasii, Cytospora* 8768
forest trees, mycorrhizas 1844
Gramineae, mycorrhizas 2515
hazelnuts, *Anisogramma anomala* 1623
*Juncus*, fungi 3982
lucerne, viruses 4454
*Pinus lambertiana, Cronartium ribicola* 8789
*Populus*
*Melampsora larici-populina* 7098
*Melampsora medusae* 7097
potatoes, *Verticillium dahliae* 2843
*Pseudotsuga menziesii*
mycorrhizas 3329
*Rhabdocline parkeri* 7122
wheat, physiologic leaf spot 6676
Pennsylvania
apples, *Erwinia amylovora* 8613-8614
Coniferae, diseases 6301
*Lolium perenne, Magnaporthe grisea* 3177
mushrooms, La France disease 7162
oats
barley yellow dwarf luteovirus 8336
*Pyrenophora avenae* 8336
South Carolina
peaches
decline 8625
fungi 8625
*Phaseolus vulgaris, Fusarium oxysporum* f.sp. *phaseoli* 6777
South Dakota, barley, *Puccinia coronata* 2690
Tennessee, *Picea rubens*, decline 4847
Texas
cotton, bacteria 574
*Festuca arizonica, Acremonium* 7166
grapefruits
*Diaporthe citri* 2266
*Ganoderma lucidum* 2267
groundnuts
*Corticium rolfsii* 8688

**USA** *cont.*
Texas *cont.*
groundnuts *cont.*
*Sclerotinia minor* 7835
lupins, *Sclerotinia minor* 5573
oranges, *Ganoderma lucidum* 2267
*Platanus occidentalis*
*Botryodiplodia theobromae* 5540
*Ceratocystis fimbriata* 5540
spinach, *Colletotrichum dematium* 8518
Utah
*Bromus tectorum*, mycorrhizas 7308
forests, diseases 8754
groundwater, pesticide residues 23
Hyphomycetes 7361
*Sitanion hystrix*, mycorrhizas 7308
Vermont
*Abies balsamea*, decline 7904
*Betula papyrifera* var. *cordifolia*, decline 7904
*Picea rubens*, decline 7904
Virginia
*Carduus thoermeri, Puccinia carduorum* 8858
chestnuts, *Cryphonectria parasitica* 8782
*Festuca arundinacea, Claviceps purpurea* 6750
grapes
*Botrytis cinerea* 2993
diseases 2993
groundnuts
diseases 5469
*Mycosphaerella arachidis* 8687
*Mycosphaerella berkeleyi* 1638
*Sclerotinia minor* 8687
*Picea rubens*
acid deposition 3162
decline 4847
*Pinus strobus, Leptographium procerum* 4837
*Pinus taeda, Rhizoctonia* 8796
wheat, *Erysiphe graminis* 7468
Washington
*Acer pseudoplatanus, Apiognomonia veneta* 2388
apples
diseases 1040
*Pezicula malicorticis* 463, 1577
asparagus, *Puccinia asparagi* 428
barley
*Rhizoctonia oryzae* 290
*Rhizoctonia solani* 290
*Centaurea diffusa, Puccinia jaceae* var. *diffusa* 636-637
*Centaurea repens, Puccinia acroptili* 637
cherries, twisted leaf 6162
chickpeas, *Ascochyta rabiei* 2135
*Cornus, Discula* 1175
lawns and turf, *Monographella nivalis* 2409
*Lolium perenne, Acremonium* 7566
lucerne, viruses 4454
pears, diseases 1040
Pinaceae, mycorrhizas 5726
*Platanus, Apiognomonia veneta* 2388
*Populus*
*Melampsora larici-populina* 7098
*Melampsora medusae* 7097
potatoes
beet western yellows luteovirus 6034
*Colletotrichum coccodes* 2830
*Phytophthora infestans* 6051
potato leaf roll luteovirus 6034
*Spongospora subterranea* 2830
*Verticillium dahliae* 2830, 3726
shrubs
algae 1722
lichens 1722
mosses 1722
stone fruits
*Monilinia fructicola* 1057
*Monilinia laxa* 1057
tomatoes, beet curly top intergeminivirus 8545
trees
algae 1722
lichens 1722

**USA** *cont.*
Washington *cont.*
trees *cont.*
mosses 1722
wheat
*Gaeumannomyces graminis* 853, 6638
physiologic leaf spot 6676
*Pythium* 6638
*Rhizoctonia solani* 6638
West Virginia, *Trifolium pratense*, *Gibberella avenacea* 5236
Wisconsin
cucumbers, diseases 2207
*Fraxinus*, ash yellows 3141
*Picea*, *Rhizosphaera kalkhoffii* 7944
*Populus balsamifera*
*Melampsora medusae* 7917
*Mycosphaerella populorum* 7917
potatoes, diseases 5284
Wyoming
*Comandra umbellata*, *Cronartium comandrae* 8794
forests, diseases 8754
lucerne
*Phytophthora megasperma* f.sp. *medicaginis* 7580
*Verticillium albo-atrum* 7580
mined land, mycorrhizas 3337
*Pinus contorta*, *Cronartium comandrae* 8794-8795
**USSR** (*see also* individual republics of the former USSR, now the Commonwealth of Independent States)
barley, *Pyrenophora graminea* 2042
beetroots
beet mosaic potyvirus 419
beet yellows closterovirus 419
*Bromus inermis*, diseases 2755
cereals
barley yellow dwarf luteovirus 243
diseases 827, 4295
cotton, diseases 1137
crops, diseases 2598
*Drechslera* 6549
*Exserohilum* 6549
Gramineae, *Pyrenophora tritici-repentis* 2624
*Lilium*
*Botrytis cinerea* 2413
*Botrytis elliptica* 2413
maize
*Cochliobolus carbonum* 882
*Cochliobolus heterostrophus* 882, 2053
*Setosphaeria turcica* 882, 2053
medicinal plants
mycoplasma-like organisms 7144
viruses 7144
onions, *Peronospora destructor* 425
pesticides, safety 2449
plant diseases, legislation 2487
plant protection, books 4042
potatoes
*Geotrichum candidum* 985
*Phytophthora infestans* 1512, 2158
rape, diseases 1088
sugarbeet, diseases 1114, 3085, 7047
wheat
diseases 839
*Fusarium* 255
*Gibberella zeae* 255
*Gibellina cerealis* 859
*Pyrenophora tritici-repentis* 271
*Septoria* 6659
**Ustilaginales**
Germany 6556
maize, Moldova 885
millets
China 315
varietal reactions 315
Spain 6548
biogeography 2551
taxonomy 6556
new combinations 777
new species 777
synonyms 777
***Ustilaginoidea virens***
maize, Sikkim 4389
rice
Assam 8387
***Ustilaginoidea virens*** *cont.*
rice *cont.*
chlamydospores 7553
control 3649
fertilizers 8386
Haryana 5966
infection 7553
Jammu and Kashmir 8388
reviews 5211
varietal reactions 8387-8388
yield losses 5966, 8387-8388
***Ustilago***
spore germination 2539
taxonomy 7379
wheat
breeding 8276
Ukraine 8276
***Ustilago avenae*** (*see Ustilago segetum* var. *avenae)*
***Ustilago hordei*** (*see Ustilago segetum)*
***Ustilago hypodytes***, *Agropyron*, Iran 1470
***Ustilago kolleri*** (*see Ustilago segetum)*
***Ustilago levis*** (*see Ustilago segetum)*
***Ustilago maydis*** (*see Ustilago zeae)*
***Ustilago nigra*** (*see Ustilago segetum* var. *avenae)*
***Ustilago nuda*** (*see Ustilago segetum* var. *nuda)*
***Ustilago phrygica***, *Aegilops*, taxonomy 861
***Ustilago scabiosae***, life cycle, sporidia 5021
***Ustilago scitaminea***
soil
Louisiana 6256
soil water 6256
survival 6256
sugarcane
Argentina 7042
biology 8701
Colombia 6255
control 1109, 3081, 6257, 8699, 8701
Cuba 2329
drought 7042
environmental factors 3081
Jamaica 7040
Louisiana 6256, 8701
Nigeria 6257
reviews 1645
selection 7040
soil water 6256
survival 6256
varietal reactions 3078, 3909, 4721, 6255, 7042
***Ustilago segetum***
*Avena*, host specificity 5907
barley
Egypt 2026
mating types 864
varietal reactions 5130
molecular genetics
DNA 8184
mating types 5020
oats, host specificity 5907
***Ustilago segetum* var. *avenae***
*Avena*, host specificity 5907
oats
host specificity 5907
varietal reactions 3589, 5130
*Trichoderma harzianum*, antagonism 4176
ultrastructure, meiosis 737
***Ustilago segetum* var. *nuda***
barley
Italy 2691
Rajasthan 5894
screening 5894
seeds 2691
wheat, varietal reactions 8300
***Ustilago segetum* var. *tritici***
wheat
black point 5871
control 2010, 2666, 2668, 3538
Egypt 2010
floral characteristics 5150
India 2668
mixed infections 2667
seeds 5871
varietal reactions 2010, 5150, 5870
***Ustilago tritici*** (*see Ustilago segetum* var. *tritici)*
***Ustilago violacea***
fimbriae, proteins 4189
***Ustilago violacea*** *cont.*
genetics, mitochondria 1290
*Lychnis viscaria*, reproduction 4020
*Silene dioica*
ecology 631, 5607
Sweden 631, 5607
***Ustilago zeae***
cytochrome P-450 2560
fungicide tolerance, triadimefon 8093
laboratory tests
fenpropidin 1238, 8094
fenpropimorph 8094
fungicides 1239, 1811
piperalin 1238
prochloraz 2463
quinconazole 2463
tetraconazole 2538
triadimefon 1242
tridemorph 8094
maize
crop density 5918
enzymes 1967
ergosterol 6701
inoculation 302
molecular genetics 5185
mutants 6701
pathogenicity 5185
siderophores 5185
Sikkim 4389
varietal reactions 5918
molecular genetics
fungicide tolerance 1289, 8350
gene expression 2054
mating types 108, 883-884, 1418, 4388, 5020
nucleotide sequences 7330
pathogenicity 883, 6702
phenotypes 6702
plasmids 2054, 7329
siderophores 883
toxins 6457
ultrastructure, meiosis 737
viruses, toxins 5819
***Ustulina deusta***
*Hevea brasiliensis*, control 2368
tropical crops, characteristics 1305
**Uzbekistan**
cotton
*Stemphylium macrosporioideum* 2362
*Verticillium dahliae* 3945, 6279
***Vaccinium***
*Diplodina eurhododendri*, Ukraine 2243
diseases
keys 5416
nomenclature 6622
disorders, keys 5416
fungicide residues, detection 2979
*Hymenoscyphus ericae*
mycorrhizas
growth 4172
micropropagation 4172
*Penicillium expansum*, Ukraine 2243
*Protoventuria barriae*
North America 4637
taxonomy 4637
*Scytalidium vaccinii*
mycorrhizas
growth 4172
micropropagation 4172
***Vaccinium macrocarpon***, diseases, nomenclature 1361
***Vaccinium myrtillus***, *Hymenoscyphus ericae*, mycorrhizas, nuclei 1279
***Vaccinium parvifolium***, Pyrenomycetes, British Columbia 7988
***Valeriana sambucifolia***
*Uromyces valerianae*
ecology 631
Sweden 631
***Valsa***, apples, infection 6926
***Valsa abietis***, *Pinus koraiensis*, Korea Republic 8759
***Valsa ceratosperma***, laboratory tests, triazoles 75
***Valsa eucalypti***, *Eucalyptus*, Kerala 3966
***Valsa mali***
apples
antibiotics 7738
biological control 7738
control 464
*Bacillus subtilis*, antagonism 8155

***Valsa mali* var. *pyri*,** pears, taxonomy 8617
***Valsa paulowniae***
*Bacillus subtilis*, antagonism 8155
*Paulownia*, biological control 5548
***Valsa sordida*, *Bacillus subtilis*,** antagonism 8155
***Vanilla*,** diseases, quarantine 1181
***Vanilla fragrans*,** viruses, Pacific Islands 4011
**Vanilla mosaic potyvirus**
*Vanilla*, Pacific Islands 4011
*Vanilla tahitensis*
characteristics 1182
Cook Islands 1182
French Polynesia 1182
**Vanilla necrosis potyvirus**
*Nicotiana benthamiana*, induced resistance 4879
*Vanilla*, Pacific Islands 4011
*Vanilla planifolia*
induced resistance 4879
serology 1182
Tonga 1182, 4879
***Vanilla planifolia***
*Fusarium oxysporum*
hosts 3199
Indonesia 3199
*Fusarium oxysporum* f.sp. *vanillae*
Indonesia 626
integrated control 626
vanilla necrosis potyvirus
induced resistance 4879
serology 1182
Tonga 1182, 4879
***Vanilla tahitensis***
vanilla mosaic potyvirus
characteristics 1182
Cook Islands 1182
French Polynesia 1182
viruses, Pacific Islands 4011
**Vanuatu**
*Vanilla fragrans*, viruses 4011
*Vanilla tahitensis*, viruses 4011
***Vararia maremmana***
*Juniperus phoenicea*
Italy 764
taxonomy 764
***Vatica sumatrana***
*Boletus*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Russula*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
*Scleroderma*
mycorrhizas
growth 4962
Indonesia 4962
nutrients 4961
**Vegetable marrows** (*see* Marrows)
**Vegetables**
*Alternaria*
hosts 6612
Romania 6612
bacteria
expert systems 5643
identification 5643
postharvest decay 5643
*Botrytis cinerea*, control 8095
cucumber mosaic cucumovirus, Shandong 3466
diseases
Belarus 385
biological control 2609, 2614
books 2438, 4047
control 3485, 4041, 5120, 5843, 8083, 8096
genetics 3485
Mali 5120
Middle East 5843
population dynamics 385
protected cultivation 5843
Russia 4041
Zimbabwe 8083
disorders, books 5627
fungicide residues, Rio de Janeiro 78
**Vegetables** *cont.*
pesticide residues
analysis 4082, 4087
detection 2451
estimation 2450
safety 54
Sweden 1227
pesticides, France 4092
postharvest decay
biological control 3471, 4282
reviews 4282
potato Y potyvirus, Shandong 3466
*Pythium*, Ningxia 1899
*Rhizoctonia*, insects 6600
seedborne fungi
Pakistan 7433
seed germination 7433
storage decay
biological control 5840
control 1366-1367, 1501, 3462
environmental factors 1365
Russia 1367
tobacco mosaic tobamovirus, Shandong 3466
turnip mosaic potyvirus, Shandong 3466
viruses
China 1974
control 2856
Malaysia 1974
Taiwan 2856
**Venezuela**
bananas, *Mycosphaerella musicola* 6200
*Bixa orellana*, *Nectria rigidiuscula* 3490
blackberries, *Glomerella cingulata* 7764
citrus
citrus exocortis viroid 4666
citrus psorosis complex 4666
citrus tristeza closterovirus 3011
xyloporosis 4666
cocoa, *Nectria rigidiuscula* 3093
coffee, *Hemileia vastatrix* 3928
*Colocasia esculenta*, *Xanthomonas campestris* pv. *zantedeschiae* 7658
cowpeas
*Curtobacterium flaccumfaciens* pv. *flaccumfaciens* 2817
*Xanthomonas campestris* pv. *phaseoli* 2817
*Xanthomonas campestris* pv. *vignicola* 2817
crops, viruses 2561
Gramineae, maize dwarf mosaic potyvirus 4250
guavas, diseases 7010
maize
bacteria 2722
diseases 4379
*Melicoccus bijugatus*, *Nectria rigidiuscula* 3490
plant pathology, research 2440, 2607
potatoes, *Phytophthora infestans* 3721
rice, diseases 2728, 5204
savannas, mycorrhizas 714
sesame, *Macrophomina phaseolina* 7845
sorghum, bacteria 2722
soyabeans, diseases 5999
sugarcane, *Puccinia melanocephala* 3080
sweet potatoes, *Xanthomonas campestris* 2855
***Venturia*,** apples, storage 2221
***Venturia inaequalis***
apples
ascospores 2945, 5388
biology 461
breeding 6143, 7734
cell walls 1044
control 2939-2940, 2942-2943, 2948, 4611, 5388, 6145, 6915, 6917, 7735, 7737
enzymes 2949
epidemiology 2953
flavanols 2931
forecasting 2947, 2953
fungicide tolerance 1576, 7736
Germany 134, 7734
Himachal Pradesh 5388
histochemistry 2931
host parasite relationships 2949
Hungary 2950
hypersensitivity 6146
integrated control 2950-2951
***Venturia inaequalis*** *cont.*
apples *cont.*
Kyushu 1575
Mexico 6915
models 134, 2952, 7737
New Hampshire 6145
New York 6145
New Zealand 7736
Norway 2947, 2953
Nova Scotia 1576, 6144
Ontario 6144
plant extracts 2941
plant oils 4611
Poland 2951
races 7734
reviews 2943, 7733
screening 2946
selection 8608
spore dispersal 6144
spraying equipment 2942
varietal reactions 1042-1043
Yugoslavia 2945
laboratory tests, *N*-phenylanilines 4108
*Malus*, varietal reactions 3122
molecular genetics, fungicide tolerance 2223-2224
***Venturia pirina***
laboratory tests, *N*-phenylanilines 4108
molecular genetics, fungicide tolerance 2223
pears
control 1052, 2963, 7744
fertilizers 6931
fungicide tolerance 1052, 2963
Japan 1052, 2963-2964, 7744
rain 5395
spore dispersal 5395
susceptibility 7744
varietal reactions 2964
*Pyrus sylvestris*
flavanols 2931
histochemistry 2931
***Vermicularia capsici*, *Capsicum*,** China 6124
***Veronaea coprophilla*,** Himachal Pradesh 7356
***Veronica cinerea*, *Plasmopara veronicae-chinensis*,** Himachal Pradesh 3392
***Verticillium***
biochemistry, enzymes 6508
chickpeas
Indian Punjab 2142
pathogenicity 2142
control, *Pseudocercosporella herpotrichoides*, wheat 275
*Eucalyptus tereticornis*
control 6292
Madhya Pradesh 6292
seeds 6292
hops, control 8832
hyperparasitism, *Puccinia coronata* 6632
laboratory tests, plant extracts 1832
molecular genetics, restriction fragment length polymorphism 1292
Nematoda, interactions 3475
pears, New Zealand 7743
shade trees, control 3129
soil, Bangladesh 119
taxonomy, restriction fragment length polymorphism 1292
***Verticillium albo-atrum***
apricots, Italy 2228
aubergines, mixed infections 2167
cotton
induced resistance 6277
Iran 1675
phytoalexins 6277
varietal reactions 1675
hops
Germany 7160
pathogenicity 7160
root rots 7160
laboratory tests, sesquiterpenoid lactones 4951
lucerne
British Columbia 1472
elicitors 5235
histopathology 3666
Mexico 6755
mixed infections 4453
phytoalexins 5235
resistance 3666

***Verticillium albo-atrum*** *cont.*
lucerne *cont.*
seeds 6755
varietal reactions 1472, 6755
weeds 7580
Wyoming 7580
molecular genetics, restriction fragment length polymorphism 4220
peas, varietal reactions 8453
potatoes
antagonists 2822
Maine 6056
mixed infections 6056
tomatoes
enzymes 3773
host parasite relationships 3773
***Verticillium biguttatum***, control, *Rhizoctonia solani*, potatoes 402
***Verticillium chlamydosporium***, control, Uredinales, cereals 4305
***Verticillium dahliae***
almonds
California 5835
mulching 5835
soil solarization 5835
apricots
California 5835
Italy 2228
mulching 5835
soil solarization 5835
aubergines
biological control 8540
mixed infections 2167
bacteria, antagonism 6547
biochemistry, melanin 7313
*Capsicum*
control 441
host parasite relationships 6123, 8579
isolates 6123
screening 8573
soil solarization 6887
testing 6122
varietal reactions 2201, 6887, 8579
cocoa, culture 3929
cotton
breeding 3948, 3951
control 1136
fertilizers 1671
histopathology 7895
induced resistance 3948, 7073
inoculum density 3117
models 3117
oxalates 8740
phytoalexins 8740
plant age 7897
remote sensing 572, 3949
resistance 6279, 7897-7898
reviews 1674, 2356
rotations 3945
selection 6279
toxins 3953, 7892, 8742
Uzbekistan 3945, 6279
varietal reactions 568
vitamins 7897-7898
yield losses 3117
faba beans, continuous cropping 5239
hops
Germany 7160
pathogenicity 7160
root rots 7160
immunodiagnosis 7391
*Impatiens walleriana*, USA 6342
linseed
Germany 3045
UK 5464, 8673
yield losses 5464
molecular genetics, restriction fragment length polymorphism 4220
olives
control 7026
Greece 7026
physiology, red light 6539
potatoes
antagonists 2822
breeding 5295
distribution 2830
epidemiology 2830
irrigation 2843
Maine 6056
mixed infections 6056
models 1513
***Verticillium dahliae*** *cont.*
potatoes *cont.*
Nematoda 1513
Oregon 2843
rotations 3726
screening 2161
suppressive soils 3727
toxins 2161
tubers 5296
Washington 2830, 3726
yield losses 1513, 2843
rape
interactions 1089
Nematoda 1089
soil, estimation 4209
*Solanum*
screening 2161
toxins 2161
*Solanum torvum*, breeding 5295
strawberries
pathogenicity 6948
soil treatment 7765
strains 6948
*Talaromyces flavus*, antagonism 2125
tomatoes
biological control 7683
control 4584
Greece 2192
Morocco 4584
races 2192
selection 8246
symptoms 6856
***Verticillium fungicola***, mushrooms, resistance 4017
***Verticillium lateritium***, cherries, storage 7752
***Verticillium lecanii***
control, *Puccinia horiana*, chrysanthemums 8812
hyperparasitism
*Cerotelium fici* 6196
*Puccinia graminis* 843
***Verticillium psalliotae***, hyperparasitism, *Puccinia recondita* 6632
***Verticillium tenuipes***, hyperparasitism, *Puccinia recondita* 6632
**Vetch** (*see Vicia*)
***Viburnum sargentii***
*Pseudocercospora varia*
China 5787
taxonomy 5787
***Vicia***
*Glomus*, mycorrhizas, growth 2524
*Glomus mosseae*, mycorrhizas, growth 2524
***Vicia amoena***, *Thecaphora viciae-amoenae*, China 5785
***Vicia ervilia***, pea seed-borne mosaic potyvirus, seeds 2772
***Vicia faba*** (*see* Faba beans)
***Vicia narbonensis***, pea seed-borne mosaic potyvirus, seeds 2772
***Vicia narbonensis* var. *narbonensis***, pea seed-borne mosaic potyvirus, seeds 2772
***Vicia palaestina***, pea seed-borne mosaic potyvirus, seeds 2772
***Vicia pannonica***, pea seed-borne mosaic potyvirus, seeds 2772
***Vicia sativa***, pea seed-borne mosaic potyvirus, seeds 2772
**Vietnam**
citrus, diseases 5438
rice, *Cochliobolus lunatus* 4438
***Vigna aconitifolia***
yellow mosaic virus
India 8466
varietal reactions 8466
***Vigna angularis***
*Cercospora canescens*
Heilongjiang 4502
varietal reactions 4502
*Rhizoctonia solani*, biological control 6023
***Vigna angularis* var. *angularis***, viruses, reviews 2100
***Vigna mungo***
*Colletotrichum dematium*, pathogenicity 5280
*Colletotrichum graminicola*, pathogenicity 5280
***Vigna mungo*** *cont.*
*Colletotrichum lindemuthianum*, pathogenicity 5280
diseases
control 3708
Himachal Pradesh 3708
*Erysiphe polygoni*, control 5281
fungicides, nodulation 5279
*Macrophomina phaseolina*
control 2815
toxins 6024
mung bean yellow mosaic bigeminivirus
Orissa 5277
varietal reactions 5277
mycorrhizas, environmental factors 1275
*Mycosphaerella cruenta*, control 5281
viruses, reviews 2100
***Vigna parkeri***, mycorrhizal fungi, inoculation 4989
***Vigna radiata***
*Aspergillus parasiticus*
lipids 4271
seeds 4271
toxins 4271
*Cercospora canescens*
control 7629
Uttar Pradesh 7629
*Colletotrichum dematium*, epidemiology 7627
*Colletotrichum lindemuthianum*, epidemiology 7627
*Curtobacterium flaccumfaciens* pv. *flaccumfaciens*
detection 7625
seeds 7625
diseases
Orissa 5278
screening 5278
*Erysiphe polygoni*
control 383
environmental factors 971
Karnataka 383, 971
planting date 971
*Fusarium solani* f.sp. *phaseoli*
environmental factors 7626
hydroponics 2146, 7626
pH 2146
temperature 2146
*Glomus intraradices*, mycorrhizas, soil temperature 8134
*Glomus mosseae*, mycorrhizas, inoculation 95
*Macrophomina phaseolina*
host parasite relationships 969
nitrogen fixing bacteria 970
temperature 969
mycorrhizas, plant development 98
*Mycosphaerella cruenta*
control 7629
Uttar Pradesh 7629
phyllody
control 966
Madhya Pradesh 966
mycoplasma-like organisms 966
*Pseudomonas syringae* pv. *syringae*
plasma membranes 6028
toxins 6028
*Rhizoctonia solani*
control 2816
plant extracts 3319
*Thanatephorus cucumeris*, plant extracts 2813
viruses, reviews 2100
*Xanthomonas campestris*
Japan 939
strains 939
Thailand 939
*Xanthomonas campestris* pv. *vignaeradiatae*
induced resistance 6029
seed testing 3710
***Vigna umbellata***
*Alternaria alternata*
control 6026
seeds 6026
*Aspergillus flavus*
control 6026
seeds 6026
diseases, Sikkim 8470
*Fusarium oxysporum*
control 6026

***Vigna umbellata*** *cont.*
*Fusarium oxysporum cont.*
seeds 6026
*Penicillium*
control 6026
seeds 6026
***Vigna unguiculata*** (*see* Cowpeas)
***Vigna unguiculata* subsp. *sesquipedalis***
tobacco necrosis necrovirus
ethylene 2144
hypersensitivity 2144
viruses, reviews 2100
***Vinca minor***
*Puccinia cribrata*
Germany 6555
taxonomy 6555
**Vinclozolin**
activity
*Botrytis allii* 3297
*Botrytis cinerea* 3297
microbial flora, soil 3313
*Sclerotinia fuckeliana* 141
soil flora 2480
*Ustilago zeae* 1239
control
*Botrytis allii*, onions 2175
*Botrytis cinerea*
crops 5833
cucumbers 6135
grapes 2994
peas 7616
*Ruscus hypoglossum* 3995
*Eutypa lata*, grapes 2997
*Fusarium oxysporum* f.sp. *cepae*, onions 2175
kiwifruits, storage decay 3863
*Magnaporthe grisea*, *Stenotaphrum secundatum* 1726
*Mycosphaerella pinodes*, peas 7616
*Phomopsis*, sunflowers 3051
*Pyrenochaeta terrestris*, onions 2175
*Sclerotinia sclerotiorum*
carrots 410
cucumbers 6134
sunflowers 1627, 3897-3898
*Sclerotinia trifoliorum*
lucerne 7564
*Trifolium pratense* 7564
*Sclerotium cepivorum*, garlic 2859
sunflowers, diseases 4708
fungicide residues
grapes 2994
soil 3313
fungicide tolerance, *Botrytis cinerea* 73, 6189, 7774
hydrolysis 8103
persistence, peas 8104
seed treatment, garlic 2859
**Viroids**
avocado sunblotch viroid, avocados 7803
biology, reviews 1951
chrysanthemum stunt viroid, chrysanthemums 3181, 7961
citrus 2262, 3873
citrus exocortis viroid 2575
citrus 4665-4666
*Gynura aurantiaca* 4268
lemons 4663
tomatoes 4268
coconut cadang-cadang viroid 1633
detection 5796
diagnosis, reviews 5053
evolution, reviews 1951
fruit 1570
grapes 1070, 2984, 6178
hop latent viroid, hops 2418, 3202
hop stunt viroid, hops 3202, 7159
molecular genetics, evolution 6581
*Nematanthus wettsteinii* 5568
nucleotide sequences 5796
peach latent mosaic viroid 196
pear blister canker viroid 5394
pears 1051
plants 7393, 7399
potato spindle tuber viroid 4247
potatoes 396, 974, 2154, 2886, 5098, 5288-5290, 6804
tomatoes 2887, 5098, 5288
tomato apical stunt viroid 2575
tomato planta macho viroid, tomatoes 3768
**Viruses**
alfamovirus group
alfalfa mosaic alfamovirus 800, 804, 4243, 5501
lucerne 346
*Medicago murex* 925
*Medicago polymorpha* 925, 1476
potatoes 6812
tomatoes 8547
*Trifolium pratense* 8547
*Trifolium subterraneum* 925
alphacryptovirus group
beet cryptic III alphacryptovirus 8230
spinach beets 6086
badnavirus group
cacao swollen shoot badnavirus, cocoa 549, 7873, 8714
commelina yellow mottle badnavirus 1936
rice tungro bacilliform badnavirus 1341, 1949
*Oryza* 5947
rice 900, 902, 3637, 4409, 4411-4412, 5947, 8368-8369
sweet potato leaf curl badnavirus, sweet potatoes 6834
bigeminivirus group
abutilon mosaic bigeminivirus 194, 8218
*Abutilon pictum* 1941
African cassava mosaic bigeminivirus 795, 1328, 3440
cassava 1527, 6831-6832
bean golden mosaic bigeminivirus, *Phaseolus vulgaris* 8438
evolution 1940
Indian cassava mosaic bigeminivirus, cassava 414, 1527
mung bean yellow mosaic bigeminivirus
soyabeans 2782
*Vigna mungo* 5277
okra (bhendi) yellow vein mosaic bigeminivirus 5381
*Ageratum conyzoides* 4025
okras 455, 2217, 5382-5384, 6905, 8605
okra leaf-curl bigeminivirus, okras 1569
tobacco leaf curl bigeminivirus, *Lonicera japonica* 1941
tomato (Australian) leafcurl bigeminivirus 3438
tomato golden mosaic bigeminivirus 799, 1340, 2583, 7412
tobacco 1665, 5499-5500, 7881
tomato yellow leaf curl bigeminivirus
*Lycopersicon* 4577
tomatoes 434, 1941, 2188, 2190, 2890-2893, 4569, 4571, 4577, 5322, 5328, 5330, 7675, 8546
bromovirus group
broad bean mottle bromovirus 8217
brome mosaic bromovirus 5080, 5094-5095, 5104-5105, 5815, 6586
*Aegilops cylindrica* 1190
barley 862, 1372, 5175
*Chenopodium quinoa* 862
oats 4373
recombination 5103
RNA 5103
wheat 1382
cowpea chlorotic mottle bromovirus 210, 8217
*Clitoria ternatea* 2587
*Desmodium heterocarpon* 2587
soyabeans 353
bymovirus group
barley mild mosaic bymovirus 5068, 5074
barley 2028, 2688, 5886, 7482, 8324
cereals 2620
rye 874
barley yellow mosaic bymovirus 1324
barley 2028, 4356, 5173-5174, 7481-7482, 8324
cereals 2620
molecular genetics 1934
**Viruses** *cont.*
bymovirus group *cont.*
oat mosaic bymovirus
cereals 2620
oats 3587
phylogeny 1934
wheat spindle streak mosaic bymovirus 1324
cereals 2620
wheat 834, 1383
wheat yellow mosaic bymovirus 1324
wheat 6625
capillovirus group
apple stem grooving capillovirus
apples 5387
apricots 3838
potato T capillovirus 8211
reviews 8205
carlavirus group
chrysanthemum B carlavirus, chrysanthemums 7134
poplar mosaic carlavirus 5089
*Populus* 1153, 7096
potato M carlavirus 1332
potatoes 6036
potato S carlavirus, potatoes 972, 1507, 2155, 2824, 7635
red clover vein mosaic carlavirus
peas 209
*Phaseolus vulgaris* 209
shallot latent carlavirus, shallots 2173
carmovirus group
carnation mottle carmovirus 1338
*Chenopodium amaranticolor* 7960
Japanese iris necrotic ring carmovirus, *Iris ensata* 7965
melon necrotic spot carmovirus, melons 7708
pelargonium flower break carmovirus, *Pelargonium zonale* 6339
turnip crinkle carmovirus 1946
*Arabidopsis thaliana* 2582
turnips 5309
caulimovirus group
cauliflower mosaic caulimovirus 806, 1333, 1943-1945, 1947, 2588, 5090, 5099, 6591, 8214
*Arabidopsis thaliana* 1938, 4242
Chinese cabbages 995
figwort mosaic caulimovirus 4259, 5102, 8222
gene expression 1322
closterovirus group
beet yellows closterovirus 1116, 3446
beetroots 419
sugarbeet 1115, 3086, 3088, 8705-8707
citrus tristeza closterovirus 796, 3446, 8209
citrus 497, 499, 3011, 3870-3872, 4664-4665, 6830, 6984-6985
grapefruits 3012, 6983
grapevine leafroll associated closterovirus, grapes 1069, 1071, 4644
grapevine stem pitting associated closterovirus
grapes 485, 1071, 2580, 3854, 4644, 6174
*Nicotiana benthamiana* 485
reviews 8205
comovirus group
Andean potato mottle comovirus 5084
bean pod mottle comovirus, soyabeans 2102
broad bean stain comovirus
faba beans 5988
Leguminosae 4279
lentils 5988
*Trifolium* 4279
cowpea mosaic comovirus 5063, 7406
cowpeas 381, 7623, 8468
soyabeans 2102
cowpea severe mosaic comovirus, soyabeans 2780
molecular genetics 1934
phylogeny 1934
radish mosaic comovirus, squashes 1967

**Viruses** *cont.*
comovirus group *cont.*
red clover mottle comovirus 5062, 5071
Leguminosae 4279
peas 5271, 7611
*Trifolium* 4279
squash mosaic comovirus
marrows 1030
squashes 1967
cucumovirus group
cucumber mosaic cucumovirus 173, 807, 1324, 2592, 3454, 5050, 5055, 5060, 8201, 8548
*Capsicum* 3782, 5343, 6118-6119, 6879-6880, 8573, 8576
*Chenopodium amaranticolor* 5466
chickpeas 4490
*Coleus* 4875
cowpeas 8467
crops 2610
cucumbers 2913, 4595, 5360, 5363
*Cucurbita pepo* 4593
Cucurbitaceae 5362
*Dahlia* 1732
*Gladiolus* 5582
horticultural crops 2618
kenaf 4785
Leguminosae 1335
lupins 7584
marrows 1030, 5359
*Medicago murex* 925
*Medicago polymorpha* 925
melons 2912, 6890
*Musa* 4659
*Nicotiana bigelovii* 5812
*Nicotiana clevelandii* 5812
*Nicotiana glutinosa* 3940
*Paulownia tomentosa* 3169
*Phaseolus vulgaris* 2790, 3683, 5256
*Pimpinella monoica* 1754
*Piper methysticum* 5601
pumpkins 6130
safflower 5466
squashes 1967, 3787
*Stachytarpheta indica* 7989
sugarbeet 4728
tobacco 1129, 1669, 3095, 3104, 3940, 4239, 4753, 4761, 5502, 5812, 7882, 8206, 8716, 8728
tomatoes 2186, 2888-2889, 5324-5326, 6091
*Trifolium subterraneum* 925
vegetables 3466
water 5049
weeds 2610, 2618
peanut stunt cucumovirus 4255, 8201
tomato aspermy cucumovirus 5050, 8201
chrysanthemums 7134
tobacco 5502
tomatoes 6860
weeds 6860
cytorhabdovirus group, strawberry crinkle cytorhabdovirus, strawberries 5418
dianthovirus group
carnation ringspot dianthovirus 5072
sweet clover necrotic mosaic dianthovirus 5073
enamovirus group
pea enation mosaic enamovirus 3436
peas 7612
fabavirus group, broad bean wilt fabavirus, globe artichokes 6085
fijivirus group
maize rough dwarf fijivirus 8227
maize 2709
pangola stunt fijivirus 805
rice black-streaked dwarf fijivirus 8227
cereals 901
grasses 901
rice 322, 901, 4410, 5205
sugarcane Fiji disease fijivirus 805
furovirus group
beet necrotic yellow vein furovirus 8702
*Beta* 3917

**Viruses** *cont.*
furovirus group *cont.*
beet necrotic yellow vein furovirus *cont.*
*Chenopodium quinoa* 803
soil 7855
sugarbeet 536-538, 1115, 1118, 2332-2333, 3087, 3089-3090, 5487-5488, 6260-6262, 7851-7852, 7854-7858, 8704, 8708-8709
*Tetragonia tetragonioides* 1346
beet soil-borne furovirus 1117
sugarbeet 7854
potato mop-top furovirus 8484
soil-borne wheat mosaic furovirus
cereals 2620
wheat 247, 6637, 7449
geminivirus group
detection 792, 5810
DNA 5806
evolution 1940
Leguminosae 350
molecular genetics 5082
nomenclature 8199
paspalum striate mosaic geminivirus, Gramineae 927
reviews 1952
squash leaf curl geminivirus 799
marrows 1030
tomato mottle geminivirus, tomatoes 3769, 5327
wheat dwarf geminivirus 1937
maize 300
hordeivirus group
barley stripe mosaic hordeivirus 5056
barley 1372, 1406, 2029, 5988
poa semilatent hodeivirus 5058
idaeovirus group, raspberry bushy dwarf idaeovirus 5086
ilarvirus group
apple mosaic ilarvirus
almonds 7012
apples 7731
asparagus 2 ilarvirus, asparagus 8521-8522
prune dwarf ilarvirus 1027
almonds 7012, 8255
apricots 6156
cherries 6140
peaches 1587, 6140, 6163, 8255
plums 6140
prunus necrotic ringspot ilarvirus 1027, 6936
almonds 7012, 8255
apricots 2236, 2969
*Chenopodium quinoa* 1583
cherries 5408
cucumbers 1583
hops 5598-5599
peaches 1587, 8255
plums 6157, 6940
*Prunus* 1583
tobacco streak ilarvirus 3449
endives 421
lettuces 421
raspberries 6140
transmission 2585
intergeminivirus group
beet curly top intergeminivirus 3440
Indian mustard 6843
*Sinapis alba* 6843
sugarbeet 1651
tomatoes 8545
chloris striate mosaic intergeminivirus, Gramineae 927
luteovirus group
barley yellow dwarf luteovirus 790, 1342, 2591, 4248, 5133, 8200
barley 1372, 1979, 2026, 3560, 4354-4355, 4357, 5126, 7437, 8271
carrots 3738
cereals 241, 243, 819-821, 1371, 1373, 3494-3495, 4298-4299
Gramineae 3661
grasses 3495
*Lolium perenne* 7565
maize 4380, 5911, 6696
oats 2703, 4372, 8336-8337
pastures 1980

**Viruses** *cont.*
luteovirus group *cont.*
barley yellow dwarf luteovirus *cont.*
triticale 4296
wheat 1382, 1979-1980, 2634-2636, 4296, 5126, 7437, 8270
bean leaf roll luteovirus
chickpeas 2134, 2806, 4490
peas 372
beet western yellows luteovirus 790, 3445
chickpeas 4490
*Lactuca* 6851
lettuces 6851
*Physalis floridana* 5817
potatoes 2562, 6034
rape 4727
sugarbeet 1116, 1119-1120, 4727, 5486, 8705
weeds 2423, 4727
carrot red leaf luteovirus, carrots 7655
potato leaf roll luteovirus 790, 4254, 8204
potatoes 391, 972, 1504, 2151, 2562, 2824, 2827, 4512, 5286-5287, 6034, 6036-6041, 7422, 7633, 7635, 8476-8479
weeds 2423
soybean dwarf luteovirus
*Phaseolus vulgaris* 6776
soyabeans 352, 6761-6763
*Trifolium repens* 6756-6757
strawberry mild yellow edge luteovirus, strawberries 7422
marafivirus group, maize rayado fino marafivirus, maize 1977, 7497
monogeminivirus group
maize streak monogeminivirus 2574
Gramineae 3487
maize 295, 299, 876, 878, 2050, 4381-4383, 5909, 8347
sugarcane 3075, 3487
wheat 1987
sugarcane streak monogeminivirus 8212
necrovirus group
cucumber necrosis necrovirus 8232
tobacco necrosis necrovirus
cucumbers 2914
*Phaseolus vulgaris* 6005
soyabeans 942
tobacco 5505
*Vigna unguiculata* subsp. *sesquipedalis* 2144
nepovirus group
arabis mosaic nepovirus 5078, 8231
*Alstroemeria* 3190
grapes 3853
hops 4887
*Petunia hybrida* 1730-1731
raspberries 1589
artichoke yellow ringspot nepovirus, faba beans 943
cherry leaf roll nepovirus 3452, 7906
walnuts 1619, 5460
grapevine chrome mosaic nepovirus 5059
grapes 6958
tobacco 3939
grapevine fanleaf nepovirus 801, 1343, 5077, 5083, 7409, 8221
*Chenopodium quinoa* 5066
grapes 484, 1067, 4643-4644, 6959-6960, 8631
molecular genetics 1934
phylogeny 1934
raspberry ringspot nepovirus 5070, 7400
satsuma dwarf nepovirus
citrus 1599
oranges 3014
strawberry latent ringspot nepovirus
olives 3900
parsley 6351
strawberries 3201
tobacco ringspot nepovirus 3443
melons 6890
*Phaseolus lunatus* 4474

**Viruses** *cont.*
nepovirus group *cont.*
tomato black ring nepovirus 5088
grapes 6958
raspberries 1589
*Senecio integrifolius* 1755
*Senecio nemorensis* subsp. *fuchsii* 1755
sugarbeet 537
tomato ringspot nepovirus
fruit trees 3814
grapes 484, 2247
nectarines 4625, 5411
peaches 4625
plums 4625
*Taraxacum officinale* 4898
nucleorhabdovirus group
maize mosaic nucleorhabdovirus, sorghum 5929
pittosporum vein yellowing nucleorhabdovirus, tomatoes 3770
rice transitory yellowing nucleorhabdovirus 1324
rice 1449
sonchus yellow net nucleorhabdovirus, tobacco 1667
sorghum stunt mosaic nucleorhabdovirus, maize 2710
phytoreovirus group
rice dwarf phytoreovirus 1324, 2589, 2594, 7530
rice 1449, 2569, 2729
potexvirus group
bamboo mosaic potexvirus
bamboos 7161
barley 3561
clover yellow mosaic potexvirus 1330, 4260
faba beans 5101
cymbidium mosaic potexvirus 2573, 4246
*Dendrobium* 622
*Mokara* 8817
daphne X potexvirus, *Daphne cneorum* 3994
lily X potexvirus, *Lilium* 4006
narcissus mosaic potexvirus 797
potato aucuba mosaic potexvirus 8228
potato X potexvirus 1344-1345, 5096, 7400, 8228
*Datura* 1323
*Nicotiana clevelandii* 5498
potatoes 392, 972-973, 1505, 2824, 2828, 3711, 3730, 4512, 4514-4515, 6040, 8474, 8480-8481
*Solanum brevidens* 8473
tobacco 1668, 3096, 5497-5498, 5503-5504, 7053, 8206
tomatoes 2894, 6858
tamus red mosaic potexvirus, *Tamus communis* 4891
white clover mosaic potexvirus 3442
potyvirus group 5097
alstroemeria mosaic potyvirus, *Alstroemeria* 3190
amaranthus leaf mottle potyvirus 166
artichoke latent potyvirus, globe artichokes 6085
asparagus 1 potyvirus, asparagus 8521-8522
bean common mosaic potyvirus 190, 192-193
cowpeas 381
*Phaseolus vulgaris* 211, 1490, 2117, 2789-2790, 3683, 6008, 6775, 6782
bean yellow mosaic potyvirus 189, 4249
faba beans 3681, 5988, 6002
*Gladiolus* 2412
lentils 5988
*Macrotyloma uniflorum* 2150
*Medicago murex* 925
*Medicago polymorpha* 925
peas 6012
*Phaseolus vulgaris* 2790, 6007
*Trifolium pratense* 8418
*Trifolium subterraneum* 925
beet mosaic potyvirus 5800

**Viruses** *cont.*
potyvirus group *cont.*
beet mosaic potyvirus *cont.*
beetroots 419
sugarbeet 4728
blackeye cowpea mosaic potyvirus 190
cowpeas 4500, 6027, 8467
cardamom mosaic potyvirus, cardamoms 4010
carnation vein mottle potyvirus, carnations 4000
characteristics 158, 181-182
clover yellow vein potyvirus 189
*Phaseolus vulgaris* 8436
*Trifolium repens* 935
coat proteins 199, 204
cowpea aphid-borne mosaic potyvirus, cowpeas 4500
cytoplasmic inclusions 160
*Dahlia* 1732
dasheen mosaic potyvirus 4245
*Colocasia esculenta* 2820
*Xanthosoma sagittifolium* 2820
enzymes 8215
freesia mosaic potyvirus
*Alstroemeria* 3190
*Freesia* 5583
henbane mosaic potyvirus 166
*Solanum stoloniferum* 6033
immunodiagnosis 198, 200, 808-809
iris severe mosaic potyvirus 184
*Iris* 8816
johnsongrass mosaic potyvirus 188, 7410
maize 296
*Pennisetum americanum* 8359
Leguminosae 183
lettuce mosaic potyvirus 802, 1004
lettuces 4558-4559
peas 8452
*Sinapis arvensis* 4559
maize 167
maize dwarf mosaic potyvirus 188, 3447
Gramineae 4250
maize 296-298, 876, 1414, 2049, 2706, 3076, 4297, 4378, 4380, 5184, 5910, 6694, 7496, 8346
sorghum 2718-2719, 3606, 4297, 5928
*Tripsacum dactyloides* 5977
melon vein-banding mosaic potyvirus, melons 3789
molecular genetics 1934
monoclonal antibodies 201
nucleotide sequences 164
onion yellow dwarf potyvirus, shallots 2173
papaya ringspot potyvirus 2581, 5079
*Cucumis metulifera* 1031
melons 6890
pawpaws 3034-3035, 4683-4684, 7002
papaya ringspot (type W) potyvirus 8204
*Cucurbita maxima* 5358
watermelons 444, 3792
passionfruit mottle potyvirus, passion fruits 2271
passionfruit woodiness potyvirus, passion fruits 2271
pea seed-borne mosaic potyvirus
faba beans 5988
*Lathyrus* 2772
lentils 5988
peas 949, 1498, 2130, 2800, 4483, 5268-5270, 5272, 5809, 6011, 8451
tobacco 5809
*Vicia* 2772
peanut mottle potyvirus
*Arachis* 7027
groundnuts 7027, 8681
soyabeans 7590
peanut stripe potyvirus
*Arachis* 7027
groundnuts 5471, 7027, 8681
pepper mottle potyvirus 185-187
phylogeny 1934

**Viruses** *cont.*
potyvirus group *cont.*
plum pox potyvirus 2577, 4252, 7267, 8216
apricots 1054, 1585, 2229, 2232, 2234-2235, 2969, 3834, 3836-3837, 5401
nectarines 3844
*Nicotiana benthamiana* 1327, 3434, 3938, 6589
*Nicotiana clevelandii* 1327, 3434
peaches 1587, 2969, 3844
plums 1054, 2969, 2972, 3834, 3839, 6158, 6940
stone fruits 1056
tobacco 3938, 8225
potato A potyvirus 208
potatoes 2824
tobacco 1656
potato V potyvirus, potatoes 4514
potato Y potyvirus 172, 185-186, 195, 791, 1324, 1326, 5100, 5800, 5818, 8213
*Capsicum* 6120, 6882-6883, 8573
potatoes 393-395, 972, 1352, 1504, 1506, 2153, 2824, 2829, 3711, 4512, 4515, 6036-6038, 6041-6044, 6809-6811, 7638-7640, 8474, 8482-8483
*Solanum brevidens* 2152, 8473
*Solanum stoloniferum* 6033
sunflowers 7817
tobacco 395, 562-563, 2348, 2829, 3937, 4239, 4753, 4760, 6271-6272, 7060, 8206, 8724-8726
tomatoes 2889, 4573-4574
vegetables 3466
weeds 4024
resistance 174
reviews 158
serology 191, 197, 202-203, 6590
Solanaceae 177
sorghum 167
sorghum mosaic potyvirus 188
maize 296
soybean mosaic potyvirus 354, 7414, 8226
nucleotide sequences 5245
*Phaseolus vulgaris* 6006
soyabeans 355, 940-941, 2101-2102, 2778-2779, 2781, 4464, 5242-5244, 5990, 6760, 7589, 8424-8426
sugarcane 167
sugarcane mosaic potyvirus 166, 188
Gramineae 5480
maize 296, 2049, 4297
*Pennisetum americanum* 8359
sorghum 3606, 4297
sugarcane 3076-3077, 6255, 8698
*Tripsacum dactyloides* 5977
sweet potato feathery mottle potyvirus
*Ipomoea setosa* 415
sweet potatoes 415, 1531
taxonomy 156, 159-162, 164-165, 168, 176, 180, 191, 204-207
tobacco etch potyvirus 171, 178, 2576-2577, 5093
tobacco 8717
tomatoes 6095
tobacco vein mottling potyvirus 8220
tobacco 8717, 8727, 8729
transmission 162
turnip mosaic potyvirus 798, 1324, 2593, 3448, 5064, 7407
*Brassica nigra* 4552
cabbages 2864
Chinese cabbages 995
Indian mustard 5308, 8668
*Papaver nudicaule* 7959
*Papaver somniferum* 1743
radishes 1534
rape 8668
*Sinapis alba* 4552
vegetables 3466
vanilla mosaic potyvirus, *Vanilla* 1182

**Viruses** *cont.*
potyvirus group *cont.*
vanilla necrosis potyvirus
*Nicotiana benthamiana* 4879
*Vanilla* 1182
*Vanilla planifolia* 4879
vectors 181
watermelon mosaic 2 potyvirus
*Cucurbita maxima* 5358
Cucurbitaceae 8589
*Lagenaria siceraria* 5364
marrows 4596
melons 5353, 6890
*Nicotiana benthamiana* 212
pumpkins 6130
watermelons 6131
wild plants 8840
yam mosaic potyvirus, yams 4534
zucchini yellow mosaic potyvirus 179, 1561, 5069, 7405
cucumbers 443, 5363
*Cucurbita maxima* 5358
*Cucurbita pepo* 8586
marrows 1030, 2208, 3786, 3790, 4594, 4596, 5351, 7706
melons 6588
*Nicotiana benthamiana* 212, 6589
squashes 4597
tobacco 6588
watermelons 5357
rhabdovirus group, vectors 2586
ribotungrovirus group
maize chlorotic dwarf ribotungrovirus, maize 876, 2707, 6695, 7499, 8346
rice tungro spherical ribotungrovirus 1949
*Oryza* 5947
rice 902, 3637, 4411-4412
rymovirus group
ryegrass mosaic rymovirus
*Lolium multiflorum* 4445
pastures 342
wheat streak mosaic rymovirus 833
cereals 818
*Elymus elongatus* 5854
grasses 5134
wheat 1382, 5134, 5854
sobemovirus group
lucerne transient streak sobemovirus 4261
southern bean mosaic sobemovirus 1336
*Phaseolus vulgaris* 6775, 6782
sowbane mosaic sobemovirus
*Chenopodium amaranticolor* 1942
*Chenopodium quinoa* 1942
subterranean clover mottle sobemovirus 4244
*Trifolium subterraneum* 2094, 4458
tenuivirus group
maize stripe tenuivirus 1331, 4256, 5087
maize 295, 7498
rice grassy stunt tenuivirus, rice 3635
rice stripe tenuivirus 3444, 4258, 5091
*Laodelphax striatella* 8367
rice 3633, 5205-5206, 5949, 7528-7529, 8366
tobamovirus group
coat proteins 5816
cucumber green mottle mosaic tobamovirus
cucumbers 1028
*Lagenaria siceraria* 1029
odontoglossum ringspot tobamovirus
*Cattleya* 4874
*Cymbidium* 7971
*Dendrobium* 622
*Mokara* 8817
*Oncidium flexuosum* 5587
pepper mild mottle tobamovirus
*Capsicum* 4592, 6117, 6881, 7698, 8539
tomatoes 8539
ribgrass mosaic tobamovirus 1324-1325
tomatoes 1549

**Viruses** *cont.*
tobamovirus group *cont.*
sunn-hemp mosaic tobamovirus 210, 791
tobacco 7880
tobacco etch potyvirus, tomatoes 6095
tobacco mild green mosaic tobamovirus, tobacco 5494
tobacco mosaic tobamovirus 791, 793, 1324-1325, 5814, 7401-7404
aubergines 1009, 6876
*Capsicum* 1009, 1019, 1556, 2906, 3782, 6886, 8574
carrots 3935
garlic 2857
*Lycopersicon peruvianum* 8542
*Nicotiana* 7877
*Physalis alkekengi* 5570
potatoes 8481
soil 3102
sugarbeet 4726
tobacco 561, 1127-1128, 1130, 1323, 1656-1663, 2345-2346, 3095-3103, 3427, 3931-3936, 4239, 4754-4758, 5494-5496, 5808, 6270, 7053-7054, 7056-7059, 7876, 7878-7879, 8206, 8716, 8718-8721
tomatoes 1009, 1547-1548, 2885, 3765-3767, 4568, 5329, 6092, 7676, 8542
vegetables 3466
tomato mosaic tobamovirus
*Abies balsamea* 8784
*Capsicum* 6117, 8539
horticultural crops 789
*Picea mariana* 8784
*Picea rubens* 8784
tobacco 5494, 7054, 7880
tomatoes 4575, 4578, 6859, 8539
tobravirus group
coat proteins 5816
pea early browning tobravirus
*Nicotiana benthamiana* 6585
peas 950
tobacco rattle tobravirus 1950, 3453, 8229
*Narcissus tazetta* var. *chinensis* 7967
*Nicotiana clevelandii* 2578
tobacco 1334, 2349
tombusvirus group
cymbidium ringspot tombusvirus
*Nicotiana benthamiana* 1666, 4241
*Nicotiana clevelandii* 1666
molecular genetics 7395
tomato bushy stunt tombusvirus 3441, 6587
water 3450
tospovirus group 5052
tomato spotted wilt tospovirus 1939, 2584, 3433, 4240, 4253, 5061, 5065, 5076, 5813, 8202, 8210
*Alstroemeria* 3190
*Arachis* 7027
aubergines 8570
*Capsicum* 4591
chicory 2876
*Ficus* 7126
grapes 5424
greenhouse crops 5075
groundnuts 3064, 7027, 7830, 8680
*Impatiens* 1178
*Impatiens walleriana* 6337
*Lycopersicon peruvianum* 8542
*Nicotiana* 8723
ornamental plants 1351, 3179
*Phalaenopsis* 1739
plants 5123
tobacco 1664, 2347, 4759, 8208, 8722
tomatoes 1351, 1546, 2187, 2883-2884, 4570, 6093, 8542, 8546
*Zantedeschia aethiopica* 4872

**Viruses** *cont.*
tymovirus group
belladonna mottle tymovirus 7411
eggplant mosaic tymovirus 7408
ononis yellow mosaic tymovirus 7408
turnip yellow mosaic tymovirus 2579, 5057, 5092
*Alliaria petiolata* 7985
*Berteroa incana* 1187
*Cardamine lilacina* 8839
Chinese cabbages 6844
unclassified viruses
ageratum yellow vein virus, *Ageratum conyzoides* 4026
alstroemeria virus, *Alstroemeria* 3190
amaranthus mosaic virus, *Amaranthus caudatus* 4566
apple chlorotic leafspot virus 3451
apples 5387
apricots 2236, 2969
*Chenopodium quinoa* 1347
plums 6157
apple stem pox virus, apples 5387
avocado virus 1, avocados 2273
banana bract mosaic virus, bananas 5433
banana bunchy top virus 4251
bananas 3007, 5432, 5434, 8642-8643
*Musa* 4659
beet pseudo-yellows virus, melons 7707
bell pepper dwarf mosaic virus, *Capsicum* 6884
black currant reversion virus, black currants 474
camellia yellow mottle virus, *Camellia* 2401
cardamine chlorotic fleck virus, *Cardamine lilacina* 8841
carrot yellow leaf virus 5067
citrus leprosis virus, citrus 5440
citrus psorosis complex, oranges 1601
citrus ringspot virus
citrus 6204
grapefruits 6203
citrus tatter leaf virus, citrus 4665, 8648
citrus vein enation-woody gall virus, citrus 1078
coconut foliar decay virus, coconuts 2319
coriander chlorotic lesion virus, *Coriandrum sativum* 5597
cotton leaf crumple virus, cotton 566
cucurbit aphid-borne yellows virus, Cucurbitaceae 2209
digitaria striate mosaic virus, Gramineae 927
epirus cherry virus, cherries 2976
freesia leaf necrosis virus, *Freesia refracta* 7139
French bean crinkle stunt virus, *Phaseolus vulgaris* 8437
furcraea necrotic streak virus, *Furcraea* 1141, 6282
garlic latent virus, garlic 2857, 6070
garlic mosaic virus, garlic 2857, 6839
grapevine fleck virus, grapes 1069
grapevine labile rod-shaped virus, grapes 4645
groundnut bud necrosis virus
groundnuts 8203
tomatoes 8203
watermelons 8203
groundnut rosette virus, groundnuts 2322
heracleum latent virus 5067
hibiscus esculentus yellow vein mosaic virus, okras 7726
impatiens necrotic spot virus 8202
*Impatiens* 1178
*Nicotiana benthamiana* 8224
ornamental woody plants 5556
plants 5123
lettuce infectious yellows virus
*Cucumis prophetarum* 5352
melons 5352
maize white line mosaic virus, maize 877
olive latent II virus, olives 6244

**Viruses** *cont.*
unclassified viruses *cont.*
ourmia melon virus 2590
paprika mild mottle virus, *Capsicum* 7698
parsnip yellow fleck virus 4257, 5085
pepper hausteco virus, *Capsicum* 8575
pepper vein banding virus, *Capsicum* 5344
pigeon pea sterility mosaic virus, pigeon peas 961, 2810, 8462
pineapple wilt-associated virus, pineapples 3026
pumpkin yellow mosaic virus, pumpkins 6130
pumpkin yellow vein mosaic virus, pumpkins 6130
rice bunchy stunt virus, rice 3435
rice grassy stunt virus, rice 7531
rice tungro virus, rice 2073, 2731-2732, 3636, 4414, 5939, 5943, 5948, 5950, 6713-6714, 8365
rice white leaf virus, rice 3632
rottboellia yellow mottle virus, *Rottboellia cochinchinensis* 633
safflower mosaic virus, safflower 7821
sesbania mosaic virus, *Sesbania grandiflora* 6584
shallot X virus 5081
solanum dulcamara yellow fleck-Ob virus 5811
sorghum yellow banding virus, sorghum 1427, 2717, 2719
soybean yellow mosaic virus, soyabeans 2777, 5246, 6764, 7588
Sri Lankan passion fruit mottle virus, passion fruits 511
strawberry mottle virus, strawberries 2980, 5418
sweet potato sunken vein virus, sweet potatoes 2172
tobacco mosaic satellite virus 6592, 8207
tobacco necrosis satellite virus 2 8219
turnip vein-clearing virus, turnips 2853
wasabi latent virus, *Eutrema wasabi* 5596
wound tumour virus, *Catharanthus roseus* 8223
diversity 4912
almonds 4689
*Annona muricata* 5451
antiviral agents 157, 6807, 7394
apples 3815
apricots 2231, 2237
bananas 3003
barley 3558
bibliographies 785
books 4237
*Camellia* 8806
*Capsicum* 2905, 5342, 6877, 6885, 8577
cardamoms 3195
cassava 8499
*Catharanthus roseus* 5572
cereals 2620-2621
cherries 4623, 5406
chickpeas 375, 2133
*Chlorella* 1751
*Citrullus colocynthis* 5356
citrus 1600, 3003, 3013, 3873, 4666
classification 1320
reviews 1321
codes 6582
collections 2983
cotton 2353
cowpeas 382, 4501
crops 3216
*Cryphonectria parasitica* 106, 515, 1621-1622, 3887, 6226
cucumbers 6132, 8588
Cucurbitaceae 6889
*Dahlia* 3189
defence mechanisms 5805
detection 5796
diagnosis 2570
reviews 5053
DNA probes 8194

**Viruses** *cont.*
electron microscopy 2565
elimination 1318, 8180-8181
*Epimedium* 5557
ethylene 1935
faba beans 2786, 7602, 8423
forest trees 1694
fruit 1570, 6973
fruit trees 7268-7270
*Gardenia jasminoides* 2402
genetic engineering 1964, 3428, 5801
genetic transformation 3429, 5802-5803, 8190-8193, 8195
*Gibberella fujikuroi* var. *subglutinans* 3878
grain legumes 2100
grapes 1593, 2248, 2250, 2981, 2983, 5425, 6176-6177, 7778-7780, 8632
hops 4886, 7982-7983
horticultural crops 789
host parasite relationships 7398
immunodiagnosis 2565
*Impatiens walleriana* 7133
*in vitro* culture 2563
Indian mustard 8508
induced resistance 1948, 2571
*Ipomoea setosa* 415
Japan 1933, 2567-2568
Leguminosae 2776
lemons 4663
lentils 3697, 8423
*Lentinula edodes* 8834
lettuces 6852-6853
*Lilium* 7966
lucerne 4454
lupins 937
maize 2048, 8345
mangoes 3877
marrows 6129
medicinal plants 7144
melons 5354-5355, 8587
molecular genetics 784, 5051, 6583
*Momordica charantia* 3791
monoclonal antibodies 8194
movement proteins 8197
mushrooms 628-629, 7162
*Nicotiana* 2344
nucleotide sequences 5796
*Ophiopogon japonicus* 6336
Orchidaceae 7142, 7972
ornamental bulbs 7972
ornamental plants 4871, 7124
ornamental woody plants 3993
pastures 4446
pathogenesis-related proteins 1969
pears 3815
peas 8423
*Pennisetum purpureum* 8395
*Phaseolus vulgaris* 8423
phylogeny 1319
*Phytomonas* 4696
*Piper betle* 4008
plant extracts 7394
*Plasmopara halstedii* 2307, 7415
pome fruits 1571
potatoes 390, 2823, 2825-2826, 3712, 4513, 4516, 5285, 6035, 6805-6807, 7636, 8475
proteins 3430
*Prunus spinosa* 3833
*Pseudomonas syringae* pv. *phaseolicola* 4925, 4928-4929, 4931-4932
*Pythium irregulare* 3455
quinces 6153
raspberries 4817
resistance 2563, 2566, 2572, 3427-3429, 4238, 5054, 5804, 7396-7397, 8195, 8198
reviews 784
rice 2730, 6715, 7532
shallots 3743
soil 786
*Sorbus aucuparia* 4817
*Stachys sieboldii* 8503
stone fruits 1584
strawberries 6170
sugarbeet 3915, 4725, 5485, 7853
sweet potatoes 415, 1530, 3739
*Tagetes patula* 5571
taxonomy 163, 170, 175
tobacco 2344, 3930, 6807, 7055

**Viruses** *cont.*
tomatoes 2189, 6094, 6856, 6861, 8548
transmission 169, 787, 3431, 3439, 5807, 8196
trees, India 1354
*Trifolium repens* 4457
*Trifolium subterraneum* 2095
tulips 7966
Turkey 785
*Ustilago zeae* 5819
*Vanilla* 4011
vectors 2568, 3432
reviews 2564
vegetables 1974, 2856
Venezuela 2561
*Vigna aconitifolia* 8466
*Vigna radiata* 5278
water 788, 5049
watermelons 5356
**Vitamins,** activity, *Verticillium dahliae* 7897
**Vitathiram,** seed treatment, maize 881
***Vitis***
diseases
China 2252
screening 2252
***Vitis labrusca*** (*see* Grapes)
***Vitis rotundifolia*** (*see* Grapes)
***Vitis vinifera*** (*see* Grapes)
***Vuilleminia comedens,*** wood, laboratory tests 2377
***Vulpia ciliata***
*Fusarium oxysporum,* mycorrhizas 5719
mycorrhizas
diseases 5719
phosphorus 5719
***Vulpia ciliata* subsp. *ambigua***
mycorrhizas
ecology 4995
UK 4995
**Walnuts** (*Juglans regia*)
cherry leaf roll nepovirus
Bulgaria 1619
detection 1619, 5460
diseases, Italy 514
*Gnomonia leptostyla*
varietal reactions 8663
Yugoslavia 8663
*Pseudomonas syringae* pv. *avellanae,* Italy 3039
storage decay, Jammu and Kashmir 7808
witches' brooms
detection 1618
mycoplasma-like organisms 1618
**Wasabi latent virus,** *Eutrema wasabi,* Japan 5596
**Water**
cucumber mosaic cucumovirus, Czechoslovakia 5049
fungicides, estimation 74
methyl bromide, persistence 71
pesticide residues 1801
analysis 1249, 1820-1821, 2470-2471, 4087, 8068-8070, 8075
control 7237
detection 5675, 5681
determination 4940
estimation 8055
Germany 4940
Japan 3303
models 8115
monitoring 8116
photolysis 85
Utah 23
pesticides
degradation 3261, 3306, 4109
France 1248
models 3267
residues 3302
thiabendazole, detection 5684
tomato bushy stunt tombusvirus, Czech Republic 3450
viruses
Czechoslovakia 5049
Germany 788
*Xanthomonas campestris* pv. *betlicola,* survival 1220
**Water chestnuts**
*Corticium rolfsii*
environmental factors 8833
Kyushu 1613
sclerotia 8833

**Waterlogging,** activity, *Phytophthora cryptogea,* kiwifruits 4655
**Watermelon mosaic 2 potyvirus**
*Cucurbita maxima,* varietal reactions 5358
Cucurbitaceae
France 6889
induced resistance 8589
*Lagenaria siceraria,* induced resistance 5364
marrows, control 4596
melons
breeding 5353
Mexico 6890
*Nicotiana benthamiana*
genetic transformation 212
induced resistance 212
pumpkins, Uttar Pradesh 6130
serology 6590
watermelons, screening 6131
**Watermelons** (*Citrullus lanatus*)
*Alternaria cucumerina*
Rajasthan 5375
varietal reactions 5375
blossom-end rot, varietal reactions 7725
*Cephalosporium,* control 3799
*Colletotrichum orbiculare*
control 1035, 2916
genetics 5368
Karnataka 2916
screening 7713
*Didymella bryoniae,* seeds 1567
disorders, varietal reactions 7725
fruit blotch
bacteria 1568
Oklahoma 1568
fruit rots, seed germination 3799
fungicide residues, determination 6416
*Fusarium oxysporum*
biological control 3806
control 3799
*Fusarium oxysporum* f.sp. *niveum*
biological control 1566
control 4599
Cyprus 5369
Henan 4599
inoculation 3795
races 6903
testing 3795
Turkey 6903
varietal reactions 4598, 5369
groundnut bud necrosis virus
characteristics 8203
Taiwan 8203
*Monosporascus cannonballus,* pathogenicity 8602
ozone
Spain 5380
symptoms 5380
papaya ringspot (type W) potyvirus
isolates 444
testing 444
varietal reactions 3792
*Penicillium oxalicum,* control 3799
*Pseudomonas pseudoalcaligenes* subsp. *citrulli,* varietal reactions 5379
viruses
screening 5356
United Arab Emirates 5356
watermelon mosaic 2 potyvirus, screening 6131
zucchini yellow mosaic potyvirus
genetics 5357
Zimbabwe 5357
**Waxol,** control, *Glomerella cingulata,* mangoes 5449
**Weeds**
*Ascochyta hyalospora,* toxins 2426
beet western yellows luteovirus
British Columbia 2423
Czechoslovakia 4727
reservoir hosts 4727
biological control 4023, 4894, 6353
Arkansas 4022
biotechnology 3212
books 1761, 7176
Canada 4033, 6366
China 6368
developing countries 6595
mycoherbicides 3212
mycotoxins 8848
**Weeds** *cont.*
biological control *cont.*
New South Wales 8846
research 6366
reviews 2422, 6354, 6595, 6606
South Africa 7993
South East Asia 632
Turkey 6365
biological control agents
assessment 6361
evaluation 4034
clover yellow vein potyvirus, Japan 8436
*Colletotrichum*
biological control 7169
reviews 7169
*Colletotrichum gloeosporioides* f.sp. *aeschynomene,* biological control 7168
cucumber mosaic cucumovirus
induced resistance 2610
Italy 2610
population dynamics 2610
Spain 2618
strains 2610
*Entyloma compositarum,* biological control 7168
epidemiology
*Phytophthora cinnamomi, Rhododendron* 1176
rape, diseases 8669
*Rhizoctonia oryzae,* barley 290
*Rhizoctonia solani,* barley 290
wheat, diseases 8669
fungi
biological control 4032, 5620, 7996, 7998, 8850, 8853
host parasite relationships 8850
toxins 4032
Turkey 7996
*Glomerella cingulata*
biological control 6368
China 6368
*Macrophomina phaseolina*
Hungary 7417
varietal reactions 7417
*Mycocentrospora acerina,* Norway 2170
*Phytophthora palmivora,* biological control 7168
potato leaf roll luteovirus, British Columbia 2423
potato Y potyvirus, reservoir hosts 4024
*Pseudomonas syringae* pv. *syringae*
seeds 6873
survival 6873
*Pseudomonas syringae* pv. *tomato*
seeds 6873
survival 6873
*Pseudomonas viridiflava*
seeds 6873
survival 6873
*Puccinia chondrillina,* biological control 7168
*Pyricularia oryzae*
Brazil 4427
isolates 4427, 5958
pathogenicity 4427
Philippines 5958
rickettsia-like organisms, detection 2970
tomato aspermy cucumovirus
Estonia 6860
reservoir hosts 6860
transmission 6860
*Xanthomonas campestris* pv. *vesicatoria*
Colombia 2200
hosts 2200
**Wei Dao**
control
*Phytophthora nicotianae* var. *parasitica,* aubergines 3763
*Pseudoperonospora cubensis,* cucumbers 3763
**Welsh onions** (*see Allium fistulosum*)
***Welwitschia mirabilis, Glomus,*** mycorrhizas, Namibia 6489
**West Africa,** *Pennisetum americanum, Sclerospora graminicola* 316
**Western hemlock** (*see Tsuga heterophylla*)
**Western Samoa**
cocoa
*Corticium salmonicolor* 7872
*Phytophthora palmivora* 7872
**Wheat** (*Triticum aestivum* and *T. durum*)
**Wheat** *cont.*
*Alternaria*
Ethiopia 8275
seeds 8275
*Alternaria alternata*
control 2646
detection 2646
ergosterol 1385
seeds 1385, 2646
*Aspergillus*
aflatoxins 2629
storage 2629
*Aspergillus flavus*
control 5119
storage 5119
*Aspergillus ochraceus*
control 5119
storage 5119
*Aspergillus parasiticus*
aflatoxins 7441
varietal reactions 7441
bacteria
developing countries 2025
seeds 1405
yield losses 1405
barley yellow dwarf luteovirus
Arkansas 5133
breeding 241, 1979, 2634-2635
genetic transformation 5126
genetics 241, 4296, 5126, 8270
Idaho 819
immunodiagnosis 1373
Mexico 7437, 8270
pathogenicity 1979
plant density 8271
reservoir hosts 5133
serotypes 5133, 7437
South Australia 1980
sowing date 8271
transmission 819, 2636
USSR 243
varietal reactions 8271
Yugoslavia 8271
black point
Ethiopia 8275
seeds 5871, 8275
blue dwarf, mycoplasma-like organisms 8272
*Cercospora,* Russia 2024
*Cladosporium,* spore dispersal 1384
*Clavibacter tritici,* mixed infections 3509
*Cochliobolus hawaiiensis*
biochemistry 6661
culture media 3547
sowing date 2678
spore germination 2679
varietal reactions 5877, 6661
*Cochliobolus sativus*
Bangladesh 4347
biochemistry 849
biological control 1379
Brazil 1379, 8283
China 270
control 2642, 2646, 3515, 4310, 5157, 7456
crop residues 8283
detection 2646
DNA 2644
environmental factors 272
epidemiology 831
infection 6663
integrated control 1990
Mexico 8312
ozone 831
Parana 5846
plant residues 1379
Queensland 272
resistance 5158, 8312
Rio Grande do Sul 5846
rotations 5846
Saskatchewan 272
seed treatment 7456
seeds 2646, 4310
selection 3546
Siberia 4310
sporulation 272
survival 8283
tissue culture 2019
toxins 2019
varietal reactions 270, 849, 2018, 4347, 5157

**Wheat** *cont.*
*Cochliobolus spicifer*, toxins 5879
*Coprinus psychromorbidus*, testing 2022
*Corticium rolfsii*
mycorrhizas 278
pathogenesis 857
diseases
biological control 5776
Brazil 2633
breeding 234, 4306-4307, 8274, 8276-8278
control 252, 835, 838-839, 2622, 2638, 2649, 3513, 3518, 4309, 5844, 5853, 6641, 7427, 7435, 7457, 8284, 8286-8287
Croatia 3513
crop mixtures 6631
Czechoslovakia 836, 8277
Denmark 5844, 5853, 7448
developing countries 1985-1986
economics of control 253
epidemiology 2647, 8281
estimation 8282
Ethiopia 829-830
fertilizers 835-836
forecasting 137, 238, 1380-1381, 8269
genetic resources 2632
Germany 134, 253, 4311, 7457
induced mutations 234, 246, 8278
integrated control 2633, 5132, 7448
intensive cropping 4311
lectins 249
Mexico 6641
mixed infections 3517
models 134, 1380-1381, 5853
mycorrhizas 2525
Netherlands 3520
nitrogen 2647
organic farming 7447
quarantine 830
resistance 249
reviews 829, 2649
rotations 1986, 3472, 3508, 6631
Russia 838
Saskatchewan 3472
seed treatment 4313, 7436
seeds 830
Siberia 4309
Sweden 1380-1381
Switzerland 137, 8269
tillage 1986, 3472
Uganda 8273
UK 7427, 7447, 8281, 8286-8287
Ukraine 252, 8276
USA 5132
USSR 839
varietal reactions 1389, 2647, 4309, 6641, 8273
weeds 8669
Zambia 8274
*Erysiphe graminis*
adjuvants 6603
assessment 7452
breeding 2011, 2669, 7451, 7466
China 4337, 8307
control 1386-1387, 1817, 2013, 2627, 2639, 2641, 3511, 3519, 4308, 6603, 7453-7454, 8262, 8285, 8309
cultural methods 1388
Czechoslovakia 2670, 2672, 3496
enzymes 5155
epidemiology 832, 4337
ethylene production 6657
Finland 1387
fungicide tolerance 8308
fungicides 6640
genetic engineering 6653
genetics 2670, 3496, 3542, 5135, 5153-5154, 5872, 7465, 7467
genotype mixtures 1991, 3498
Germany 2627, 3539, 8308
Henan 848, 2013
Himachal Pradesh 5151, 7455
host parasite relationships 2671, 6630
host range 3541
Indian Punjab 5151
induced mutations 5136, 8279
induced resistance 2671, 7469
Kyushu 6654

**Wheat** *cont.*
*Erysiphe graminis cont.*
models 7452
North Carolina 7453
ozone 832
phosphorus 5873
physiology 6655
races 848, 2672, 3542, 4339, 6654, 6656, 8307
resistance 3539, 5151, 6657, 8305-8306
Romania 1386
Russia 2641
sampling 5845
Saskatchewan 1388
seed production 4308
Sichuan 266, 3540
Slovakia 4339
spore dispersal 1384
Switzerland 8308
symptoms 5152
testing 6657
varietal reactions 266, 1386, 4338-4339, 5152-5154, 5856, 6654, 7454-7455, 7468
Virginia 7468
virulence 266, 848, 3540
yield losses 2012, 2627, 7452, 7454
Yugoslavia 3542, 6656
*Eurotium amstelodami*
ergosterol 1385
seeds 1385
flame chlorosis
cytology 242
Manitoba 6693
fungi
enzymes 4312
glyphosate 3423
roots 3423
seeds 4312
*Fusarium*
biological control 1379
Brazil 1379
control 3512, 3514, 4310, 8323
crop growth stage 5855
Czechoslovakia 1374
genotype mixtures 1991
Germany 4348
Hungary 6671
inoculum 280
Manitoba 1402
pathogenicity 2687
plant residues 1379
Poland 5855
rhizosphere 2687
seed germination 5852
seeds 1402, 4310, 6636, 6671
Siberia 4310
snow moulds 2687
South Africa 280, 1404
testing 780
toxins 4348, 6671
UK 8323
USSR 255
varietal reactions 3556, 4300, 5852
yield losses 1402
*Fusarium culmorum*
Austria 6673
biological control 276
breeding 3553, 8319
control 2648, 2682, 7456
Czechoslovakia 1374
Finland 276
genetics 3507, 3554
*in vitro* selection 854
Iran 6672
Italy 2648, 2682
photosynthesis 5884
resistance 3554
seed treatment 7456
testing 7442
toxins 4352, 5884, 8319
varietal reactions 3507, 4352, 6673
*Fusarium equiseti*
Argentina 6675
water stress 6675
*Fusarium proliferatum*, Iran 6672
*Fusarium roseum*, testing 7442
*Gaeumannomyces graminis*
assessment 7452
biological control 853, 3549, 5163

**Wheat** *cont.*
*Gaeumannomyces graminis cont.*
biotechnology 6664
control 5160-5161, 6664
cultural methods 5849
Czechoslovakia 1399
detection 4283
fertilizers 850, 8258
Germany 5163
isolates 822
models 7452
mulching 6638
nucleotide sequences 822
rotations 2643, 3510, 7450
testing 2020
tillage 2643, 3510
UK 5849
varietal reactions 2020, 8258
Victoria 3510
Washington 853, 6638
Western Australia 850
yield losses 1399, 7452
*Gaeumannomyces graminis* var. *tritici*
biological control 273-274, 852, 5162, 6665, 8313-8314
breeding 6666
Chile 5159
control 2640, 8313
crop growth stage 5855
crop residues 5880
fertilizers 851
Poland 5855
rotations 5159
sowing 5880
UK 8313-8314
Victoria 5880
Western Australia 3548
zinc 3548
*Gibberella avenacea*
crop growth stage 5855
Poland 5855
rotations 7450
South Africa 1404
*Gibberella zeae*
Austria 6673
biological control 1379
Brazil 1379, 8283
breeding 5165-5166, 5883, 6669, 8319
China 5165
control 855, 1403, 2642, 6674
crop residues 8283
DNA 2644
Egypt 6639
forecasting 277
genetics 2023
Hungary 6671
*in vitro* selection 854
inoculation 3555
integrated control 1990
Japan 8260
Kansas 2684
Manitoba 1402
Mexico 6674
Parana 5846
pathogenicity 6634
plant residues 1379
resistance 2686, 5167-5169
Rio Grande do Sul 5846
rotations 5846
Russia 3557
seeds 1402, 6671, 6674
selection 2683
Sichuan 277
somaclonal variation 5170
South Africa 1404
survival 8283
testing 1401, 3555, 7442, 8320
toxins 855-856, 2686, 5167-5169, 6639, 6671, 8319-8320
USSR 255
varietal reactions 1401, 1403, 5171, 6673, 8322
vegetative compatibility groups 2684
yield losses 1402, 8260
*Gibellina cerealis*, USSR 859
*Glomus*
mycorrhizas
fertilizers 5727
fungicides 5727
Germany 5727

**Wheat** *cont.*
*Glomus cont.*
mycorrhizas *cont.*
population dynamics 5727
*Glomus mosseae*, mycorrhizas, phosphates 2529
*Helminthosporium*, control 3514
*Hymenula cerealis*, varietal reactions 2625
*Leptosphaeria avenaria*
control 4345
Siberia 4345
*Leptosphaeria nodorum*
abscisic acid 3545
Brazil 8283
breeding 3506, 7474
control 268, 1387, 2016, 3515, 3519, 4343, 4345, 6660, 7470, 7473
crop residues 8283
detection 1375, 7476
environmental factors 4344
epidemiology 831
Finland 1387
fungicides 6640
genetics 3507
genotype mixtures 1991
growth stages 1398
heterochromatin 5156
heterothallism 7471
immunodiagnosis 8310
induced mutations 267
infection 4342
inoculation 1398
Manitoba 5874
Netherlands 2016
New York 6658
nitrogen 5876
ozone 831, 4342
rain 7470
resistance 4341, 5156
rotations 269
Saskatchewan 269
seeds 1375, 2017, 6636, 6658, 6660
selection 267, 2675, 3544
sexual reproduction 4344
Siberia 4345
storage 2017
survival 8283
Sweden 7470
Tanzania 8311
varietal reactions 269, 3507, 3545, 4341, 5874, 8311
yield losses 5874
*Magnaporthe grisea*, Kenya 6688
maize streak monogeminivirus
genetics 1987
South Africa 1987
varietal reactions 1987
*Microdochium bolleyi*
growth 5882
roots 5131
tropisms 5131
*Monographella nivalis*
biological control 8280
China 858
Russia 3557
taxonomy 858
mycorrhizas
diseases 278, 2525
Honshu 7296
monoculture 1854
pesticides 2529
phosphorus 1856, 4988
varietal reactions 2525
*Mycosphaerella graminicola*
Argentina 4346
breeding 3543, 7474
control 268, 2016, 3511, 4345, 7454, 7470, 7472-7473, 8285
detection 7476
DNA fingerprinting 6670
environmental factors 2676
enzymes 2674
epidemiology 7472
Ethiopia 2014
genetics 1397
Germany 7472
immunodiagnosis 8310
isolates 4346, 6670
models 2676
Netherlands 2016

**Wheat** *cont.*
*Mycosphaerella graminicola cont.*
rain 7470
rotations 269
Saskatchewan 269
selection 2673
Siberia 4345
Sweden 7470
varietal reactions 269, 2014, 4340, 4346, 7454
yield losses 7454
*Penicillium aurantiogriseum*
Czechoslovakia 1374
ergosterol 1385
seeds 1385
*Penicillium citrinum*
toxins 5127
varietal reactions 5127
pesticides
models 6429
phytotoxicity 2623
toxicity 7214
uptake 6429
physiologic leaf spot
Oregon 6676
Washington 6676
*Pseudocercosporella herpotrichoides*
biological control 275
breeding 3497, 3506
Bulgaria 6668
control 2681, 3512, 5881, 7478
Czechoslovakia 3550
Ethiopia 2021
forecasting 7478
France 3552, 7477, 8317
fungicide tolerance 2628, 3552, 7477, 8317
genetics 5164, 8315
Germany 2628, 2681
identification 1377
immunodiagnosis 8318
isolates 1377
pathotypes 823
proteins 8316
resistance 3497
rotations 2643, 3510
tillage 2643, 3510
UK 8318
varietal reactions 2021, 3550-3551, 6667
Victoria 3510
*Pseudomonas*
antagonists 282
seeds 282
*Pseudomonas fluorescens*, toxins 5885
*Pseudomonas fuscovaginae*, reviews 2630
*Puccinia*
appressoria 1984
breeding 4315
genotype mixtures 1991
resistance 1984
*Puccinia graminis*
Australia 1390
breeding 2653
Canada 5847
cell culture 1997
control 1392, 3522
Czechoslovakia 3496
Egypt 2652, 5139
Ethiopia 1993, 8289
genetics 256, 258, 842, 1992-1994, 1996, 2650, 2653, 3496, 3523, 5140, 6644, 8288-8290
haustoria 2654
host parasite relationships 1997
Hungary 1392
India 4316-4317
induced mutations 5138
inoculum 7458
Karnataka 7458
Liaoning 1996
molecular genetics 2651
pathotypes 1390
races 4302-4303, 4316-4317, 5847
Republic of Georgia 1391
resistance 5138
reviews 841
spore dispersal 1384, 1391
USA 4302-4303
varietal reactions 1995, 2652, 3523-3526, 5139

**Wheat** *cont.*
*Puccinia graminis cont.*
virulence 1993
yield losses 1392, 2652
*Puccinia hordei*
histology 3503
host parasite relationships 3503, 3568
*Puccinia persistens*, varietal reactions 6648
*Puccinia recondita*
biological control 4305
breeding 250, 260, 1395, 2659, 3533, 4320, 5857-5858, 5862, 8294
Canada 2004, 5861
control 1393, 2641, 3511, 3530-3531, 4308, 6451, 6642-6643, 7453-7454
Czechoslovakia 3496
environmental factors 2006, 4327, 5144
epidemiology 832, 5144
Ethiopia 1993, 2000, 8289
fertilizers 4318
forecasting 225, 4326, 5863
fungicides 845, 6640
genetics 256-257, 259, 261, 840, 844, 1992-1994, 2002, 2005, 2650, 2655-2659, 3496, 3521, 3533, 4314, 4319, 4321-4323, 4328-4329, 5135, 5860, 6645-6646, 7459, 7461, 8288-8291, 8293-8294
genotype mixtures 3498, 7444
Germany 2002
Hebei 8294
histology 3503
host parasite relationships 2001, 3503, 3528, 8292
hyperparasites 6632
India 2005, 4322
induced mutations 5136, 5141, 8279
inoculum 7458
irrigation 5859
Karnataka 2006, 5144, 7458
Mexico 257, 6646
models 4326, 5863
molecular genetics 2651, 3529
Morocco 1764
North Carolina 7453
ozone 832
pathotypes 3532, 7460
population dynamics 845
population genetics 2004
races 1394, 2002, 2005, 5862, 8292, 8294
reservoir hosts 1764
resistance 1999, 5141
reviews 841
Russia 261, 2641, 5863
screening 5143
seed production 4308
selection 8293
spore dispersal 1384
sulfur dioxide 5834
UK 3532
varietal reactions 259, 1393, 2000, 2003, 3527, 4318, 4324-4325, 4327, 5142, 5856, 5860-5861, 6647, 7454, 7460, 8300
virulence 1993, 2002, 5861
yield losses 261, 4326, 7454
*Puccinia striiformis*
breeding 2008, 5857, 7451
China 8298
control 2639, 4331, 4333, 5866, 6642-6643, 6649, 7454, 8285
Czechoslovakia 3496
Denmark 5864-5866
environmental factors 3536
epidemiology 3536, 4332
Ethiopia 1993, 6650
forecasting 5865
fungicide tolerance 8297
Gansu 5146
genetic resources 2637
genetics 256-257, 840, 1992-1993, 2660-2661, 3496, 3521, 4314, 5135, 5145, 5147, 7462-7463
genotype mixtures 263, 4332
Himachal Pradesh 262, 7455
host parasite relationships 4330

**Wheat** *cont.*
*Puccinia striiformis cont.*
induced mutations 5136
interactions 3535
Italy 4333
Kenya 8295
Mexico 257
models 5146, 5865, 8298
New Zealand 5147
nuclei 846
pathotypes 262, 5147
races 5864, 8295
resistance 3535
reviews 841
selection 3534
Tanzania 6649
UK 8297
varietal reactions 2007, 2660, 5856, 5864, 6649, 7454-7455, 8295, 8300
virulence 1993
yield losses 263, 7454
*Pyrenophora avenae*
Parana 5846
Rio Grande do Sul 5846
rotations 5846
*Pyrenophora tritici-repentis*
biological control 5878
control 4308
crop residues 2680
fertilizers 6662
Kansas 2680, 5878
seed production 4308
tillage 2680
USSR 271
yield losses 2677
*Pyricularia*
control 2646
detection 2646
seeds 2646
*Pyricularia oryzae*
Brazil 4427
isolates 4427
pathogenicity 4427
*Pythium*
cultural methods 7479
mulching 6638
Washington 6638
*Pythium sylvaticum*
edaphic factors 3488
glyphosate 3488
isolates 3488
*Pythium ultimum*
biological control 8280
edaphic factors 3488
glyphosate 3488
isolates 3488
*Rhizoctonia*
Jiangsu 8248
pathogenicity 8248
population dynamics 8321
seed treatment 8321
*Rhizoctonia solani*
control 2640, 3512, 4353
Jiangsu 4353
mulching 6638
ploughing 7480
rotations 7450
soil suppressiveness 4351
South Africa 7480
Washington 6638
rice black-streaked dwarf fijivirus, Korea Republic 901
root rots
fertilizers 251, 1981
Minnesota 251
*Sclerophthora macrospora*
Japan 5172
mixed infections 3509
seed treatment 3516
seed germination 2645
uptake 248
seedborne fungi
control 5850
detection 1989
Egypt 5137, 6639
toxins 6639
Uttar Pradesh 5850
*Septoria*
breeding 250
control 1386

**Wheat** *cont.*
*Septoria cont.*
forecasting 7475
Romania 1386
USSR 6659
varietal reactions 1386
snow moulds
aetiology 2687
immunodiagnosis 279
soil-borne wheat mosaic furovirus
immunodiagnosis 6637
movement 7449
resistance 7449
soil water 247
temperature 7449
varietal reactions 6637
storage decay, control 837
*Tilletia*
breeding 5148
interactions 3535
Iran 5148, 6652
resistance 3535
spore germination 6652
*Tilletia barclayana*
spore germination 264
temperature 264
*Tilletia controversa*
breeding 2662
control 265
seeds 265
Sweden 2662
*Tilletia indica*
control 1396, 4335, 5149, 5867-5868
environmental factors 2009
forecasting 2009
genetics 4334
Haryana 2664
Himachal Pradesh 5149
histopathology 5869
Pakistan 5867
reviews 847
seed germination 8303
spore germination 264
sporulation 8301
temperature 264
varietal reactions 2663, 5868-5869, 8300
*Tilletia laevis*
breeding 2662, 4336
control 6651
genetic resources 2637
Iran 6651
Sweden 2662
varietal reactions 4336, 8299
*Tilletia tritici*
breeding 2662, 4336
climatic factors 7464
genetic resources 2637
inoculum 8302
Sweden 2662, 7464
UK 8302
varietal reactions 4336, 5130, 8299
toxins, Poland 1988
*Typhula ishikariensis*, varietal reactions 4349
*Urocystis agropyri*
genetics 2665
Haryana 2685
sowing date 2685
testing 8304
*Ustilago segetum* var. *nuda*, varietal reactions 8300
*Ustilago segetum* var. *tritici*
black point 5871
control 2010, 2666, 2668, 3538
Egypt 2010
floral characteristics 5150
India 2668
mixed infections 2667
seeds 5871
varietal reactions 2010, 5150, 5870
viruses
Hungary 1382
varietal reactions 1382
wheat spindle streak mosaic bymovirus
characteristics 1383
New York 834
temperature 834
varietal reactions 834
yield losses 834
Zhejiang 1383

**Wheat** *cont.*
wheat streak mosaic rymovirus
cytology 818
molecular genetics 5854
Oklahoma 833
planting date 833
varietal reactions 833
wheat yellow mosaic bymovirus, transmission 6625
*Xanthomonas campestris* pv. *translucens*
Turkey 281
varietal reactions 281
**Wheat dwarf geminivirus**
maize, replication 300
molecular genetics
gene expression 1937
replication 1937
**Wheat spindle streak mosaic bymovirus**
plants, histopathology 1324
wheat
characteristics 1383
New York 834
temperature 834
varietal reactions 834
yield losses 834
Zhejiang 1383
**Wheat streak mosaic rymovirus**
barley, cytology 818
*Elymus elongatus*, molecular genetics 5854
grasses
Kansas 5134
reservoir hosts 5134
triticale, cytology 818
wheat
cytology 818
Hungary 1382
Kansas 5134
molecular genetics 5854
Oklahoma 833
planting date 833
reservoir hosts 5134
varietal reactions 833
**Wheat yellow mosaic bymovirus**
plants, histopathology 1324
wheat, transmission 6625
**White clover** (*see Trifolium repens)*
**White clover mosaic potexvirus**, molecular genetics, nucleotide sequences 3442
**White fir** (*see Abies concolor)*
**White gram** (*see* Chickpeas)
**White mustard** (*see Sinapis alba)*
**White pine** (*see Pinus strobus)*
***Wilcoxina mikolae***, *Pinus banksiana*, mycorrhizas 2492
***Wilcoxina mikolae* var. *mikolae***
*Betula alleghaniensis*, mycorrhizas 2493
*Picea mariana*, mycorrhizas 2493
***Wilcoxina rehmii***, *Pinus banksiana*, mycorrhizas 2492
**Wild plants**
diseases, genetic resources 8242
mycorrhizas
Germany 712-713
soil water 712-713
Spitsbergen 693
viruses
immunodiagnosis 8840
New South Wales 8840
**Willows** (*see Salix)*
**Windward Islands**
bananas
*Colletotrichum musae* 3869
*Fusarium pallidoroseum* 3869
**Winter crooknecks** (*see Cucurbita maxima; Cucurbita pepo)*
**Winter squashes** (*see Cucurbita maxima; Cucurbita pepo)*
***Withania somnifera***, plant extracts, antiviral agents 6886
***Wojnowicia hirta***, wheat, Italy 2648
**Wood destroying fungi**
Czechoslovakia, culture collection catalogues 1902
forest trees, host parasite relationships 5531
identification 1689
interactions 1869
peaches, interactions 6505
*Salix humboldtiana*, interactions 6505
storage 781, 1691

**Wood destroying fungi** *cont.*
trees, enzymes 2377
**Woody plants**
phytoalexins, reviews 1145
*Septobasidium*
hosts 606
insects 606
**Workshops** (*see* Conferences)
**Wound tumour virus**
*Catharanthus roseus*
isolation 8223
molecular genetics 8223
***Wuestneia eucalyptorum***
*Eucalyptus*
South Africa 4225
taxonomy 4225
***Xanthium italicum***
*Alternaria zinniae*, biological control 7995
*Phomopsis*
taxonomy 2306
Yugoslavia 2306
***Xanthium occidentale***
*Alternaria zinniae*, biological control 7995
*Puccinia xanthii*, environmental factors 3211
***Xanthium spinosum***
*Colletotrichum orbiculare*
Australia 6358
biological control 6358
***Xanthocephalum sarothrae*** (*see Gutierrezia sarothrae)*
***Xanthomonas***
identification 6393, 7183
laboratory tests
antibiotics 4055
fungicides 4055
marrows
Moldova 453
yield losses 453
phylogeny 6
polyamines 6
taxonomy 6412
***Xanthomonas albilineans***
sugarcane
conferences 3914
control 7044
detection 1112
Louisiana 7046
reviews 1647
Taiwan 5484
testing 4724
***Xanthomonas campestris***
*Arabidopsis thaliana*
molecular genetics 4066
virulence 4066
avocados, California 3038
cabbages
preservation 1001
seeds 1001
varietal reactions 2182
*Capsicum*, varietal reactions 2909
citrus, strains 1607
cowpeas
Japan 939
strains 939
Thailand 939
*Crambe abyssinica*, Missouri 7848
detection 4056
identification 4056
molecular genetics
DNA 4936
genetic engineering 4064-4065
nucleotide sequences 4936
plasmids 1791
mulberries
Himachal Pradesh 6952
Uttar Pradesh 6952
onions, Barbados 4550
ornamental plants
latent infections 7125
tissue culture 7125
physiology, enzymes 4933
polysaccharides, reviews 3226
*Pseudomonas fluorescens*, antagonism 2447
soyabeans
Japan 939
strains 939
Thailand 939
***Xanthomonas campestris*** *cont.*
sweet potatoes, Venezuela 2855
taxonomy, metabolism 14
tobacco, Cuba 4774
*Vigna radiata*
Japan 939
strains 939
Thailand 939
***Xanthomonas campestris* pv. *alfalfae***, lucerne, biochemistry 3667
***Xanthomonas campestris* pv. *armoraciae***, radishes, induced resistance 3467
***Xanthomonas campestris* pv. *betlicola***
*Piper betle*
biochemistry 4009
phosphorus 4009
water, survival 1220
***Xanthomonas campestris* pv. *cajani***, pigeon peas, varietal reactions 7622
***Xanthomonas campestris* pv. *campestris***
*Arabidopsis thaliana*
ethylene 1201
host parasite relationships 1201
*Brassica*
genetics 6849
Portugal 8516
varietal reactions 8516
cabbages
isoenzymes 2870
varietal reactions 2870
cauliflowers
amino acids 1003
enzymes 5316
proteins 1003
varietal reactions 1003, 5316
Cruciferae
reviews 6082
Zhejiang 1542
kohlrabi
amino acids 1003
enzymes 5316
proteins 1003
varietal reactions 1003, 5316
molecular genetics
nucleotide sequences 1202, 4935
pathogenicity 1202
xanthan 4935
mustard
amino acids 1003
enzymes 5316
proteins 1003
varietal reactions 1003, 5316
pathogenicity, protein secretion 6391
***Xanthomonas campestris* pv. *carotae***, carrots, varietal reactions 1525
***Xanthomonas campestris* pv. *citri***
*Aspergillus*, antagonism 2269
citrus
antagonists 2269
Australia 5445
control 5446
detection 505
environmental factors 5445
epidemiology 506
Guangxi 3017
infection 2270
inoculation 507
integrated control 3017
lipids 1081
models 506
resistance 1081, 2270
reviews 6997
sampling 504
São Paulo 504
varietal reactions 2270
grapefruits
bacteriophages 6212
detection 6212
Taiwan 6212
molecular genetics
DNA probes 505
genetic transformation 1218
morphology 672
mutations 672
oranges
bacteriophages 6212
detection 6212
Taiwan 6212
*Pseudomonas glumae*, antagonism 6407
***Xanthomonas campestris* pv. *citrumelo***
citrus
infection 2270
inoculation 507
resistance 2270
varietal reactions 2270
***Xanthomonas campestris* pv. *corylina***, hazelnuts, Italy 3888
***Xanthomonas campestris* pv. *cucurbitae***, squashes, Argentina 1038
***Xanthomonas campestris* pv. *cyamopsidis***
guar
antagonists 4508
biochemistry 5282
biological control 2819, 4507
Brazil 7158
host parasite relationships 5282
varietal reactions 7158
***Xanthomonas campestris* pv. *diffenbachiae***, *Anthurium*, Jamaica 2410
***Xanthomonas campestris* pv. *glycines***
soyabeans
genetics 7600
isoenzymes 7600
varietal reactions 7601
***Xanthomonas campestris* pv. *graminis***
*Festuca pratensis*
breeding 3660
Switzerland 3660
***Xanthomonas campestris* pv. *holcicola***
maize, Venezuela 2722
sorghum, Venezuela 2722
***Xanthomonas campestris* pv. *juglandis***, walnuts, Italy 514
***Xanthomonas campestris* pv. *malvacearum***
cotton
breeding 4780
control 1138, 3110
exopolysaccharides 4781
fertilizers 3118
genetic transformation 2364
host parasite relationships 3956-3957, 4782
India 7899
irrigation 3118
isolates 1139
molecular genetics 4782
New South Wales 3118
phytoalexins 3957-3958
reviews 1674, 2363
screening 1139
sowing date 7899
strains 3956
symptoms 3956
varietal reactions 3119, 4781
virulence 2364
yield losses 3119
molecular genetics, genetic transformation 5657
***Xanthomonas campestris* pv. *mangiferaeindicae***, *Schinus terebinthifolius*, Réunion 591
***Xanthomonas campestris* pv. *manihotis***
cassava
Brazil 6065
breeding 6831
Colombia 2854, 6065
control 2854
integrated control 6065
reviews 1529
Santa Catarina 2171
screening 2171
Togo 6066
varietal reactions 6066
Zaire 6831
***Xanthomonas campestris* pv. *musacearum***
bananas
Ethiopia 8646
Nematoda 8646
***Xanthomonas campestris* pv. *oryzae*** (*see Xanthomonas oryzae* pv. *oryzae)*
***Xanthomonas campestris* pv. *oryzicola*** (*see Xanthomonas oryzae* pv. *oryzicola)*
***Xanthomonas campestris* pv. *passiflorae***, passion fruits, control 6221
***Xanthomonas campestris* pv. *pelargonii***
laboratory tests, disinfectants 2548, 4107
*Pelargonium hortorum*, Iran 1737
***Xanthomonas campestris* pv. *phaseoli***
cowpeas
seeds 2817

***Xanthomonas campestris* pv. *phaseoli* *cont.***
cowpeas *cont.*
Venezuela 2817
peas, India 2805
*Phaseolus acutifolius*, varietal reactions 2799
*Phaseolus vulgaris*
breeding 3688
control 369, 3689, 5262
drought 6782
environmental factors 8450
Hungary 3691
India 2805
inoculation 370
Mexico 6775, 6782
models 1495
photosynthesis 1495
Puerto Rico 2126
reviews 2127
São Paulo 5262
screening 2126, 7607, 8449
seeds 369-370, 5267
varietal reactions 2799
yield losses 6775
***Xanthomonas campestris* pv. *phormiicola***
*Phormium tenax*, toxins 8815
toxins 4934
***Xanthomonas campestris* pv. *pruni***
peaches
biological control 3848
Italy 3848
plums
assessment 468
breeding 468
Italy 3841, 5405
screening 6942
varietal reactions 3840
***Xanthomonas campestris* pv. *raphani***
molecular genetics
nucleotide sequences 4066
virulence 4066
***Xanthomonas campestris* pv. *ricinicola*, *Ricinus communis*, control 2326**
***Xanthomonas campestris* pv. *sesami***
sesame
Assam 7846
control 7038
races 1108
seeds 7038
varietal reactions 1108
***Xanthomonas campestris* pv. *translucens***
ice nucleation, environmental factors 3227
molecular genetics, RNA probes 8027
wheat
Turkey 281
varietal reactions 281
***Xanthomonas campestris* pv. *undulosa***
cereals
detection 828
seeds 828
wheat
Brazil 2633
integrated control 2633
***Xanthomonas campestris* pv. *vasculorum***
sugarcane
control 3075
testing 7043
tissue culture 3075
***Xanthomonas campestris* pv. *vesicatoria***
*Capsicum*
Barbados 1010
control 1010, 1025, 6128
culture media 433
genetics 440
histopathology 6888
host parasite relationships 5349, 6888
infection 1024
Italy 2911
molecular genetics 1011, 5349, 6089
pathogenicity 1011
races 1010
resistance 6089
strains 433
Taiwan 6128
varietal reactions 1025, 2910
wind damage 1024
yield losses 1025
crops, control 1962
molecular genetics
DNA 7199
***Xanthomonas campestris* pv. *vesicatoria* *cont.***
molecular genetics *cont.*
gene expression 7199
nucleotide sequences 1219
pathogenicity 1219
tomatoes
Barbados 1010
Colombia 2200
control 1010, 6105, 7691
culture media 433
detection 7694
hosts 2200
India 6105
molecular genetics 1011, 6089
pathogenicity 1011
quarantine 7694
races 1010
resistance 6089
seeds 7694
strains 433
temperature 2902
weeds
Colombia 2200
hosts 2200
***Xanthomonas campestris* pv. *vignaeradiatae***
*Vigna radiata*
induced resistance 6029
seed testing 3710
***Xanthomonas campestris* pv. *vignicola***
cowpeas
control 7630
seed testing 3710
seeds 2817
Venezuela 2817
***Xanthomonas campestris* pv. *viticola***
grapes
control 2999
environmental factors 2999
fatty acids 4654
inoculation 1596
Maharashtra 4654
screening 7785
***Xanthomonas campestris* pv. *zantedeschiae*, *Colocasia esculenta*, Venezuela 7658**
***Xanthomonas oryzae***
rice
Cameroon 5209
genetic resources 5942
screening 5973
***Xanthomonas oryzae* pv. *oryzae***
*Bacillus subtilis*, antagonism 1221, 1790
biochemistry, lipopolysaccharides 1203
*Enterobacter cloacae*, antagonism 1790
immunodiagnosis 7200
laboratory tests, plant extracts 6602
molecular genetics, plasmids 1791
*Pseudomonas glumae*, antagonism 6407
rice
Bangladesh 5971
biotechnology 2752
breeding 339, 6745, 7526
China 338
climate 2085
control 5945, 7559
crop growth stage 3655
enzymes 5227
genetics 2084, 2086, 2748, 3653-3654, 4408, 4442, 5228, 5970, 6744, 6746, 7558
host parasite relationships 5227
Hubei 3654
*in vitro* selection 5229
induced mutations 339
Jiangsu 8391
Madhya Pradesh 6746
Maharashtra 5968
models 2085
molecular genetics 2750
Myanmar 2749
pathotypes 6744
Philippines 920, 1463, 7526, 7558
physiology 3656
phytoalexins 2751
population genetics 1463
races 920, 1463, 7560
resistance 2751
reviews 922, 2752
screening 5969
seeds 6712, 8391
Shaanxi 7559
***Xanthomonas oryzae* pv. *oryzae* *cont.***
rice *cont.*
symptoms 5971
Uttar Pradesh 921
varietal reactions 319-320, 338, 921, 2748-2749, 3655-3656, 5968, 5971-5972, 7558, 8392
virulence 7560
yield losses 6745
Zhejiang 8391
***Xanthomonas oryzae* pv. *oryzicola***
rice
control 5945
detection 923, 1464-1465, 3657, 7562
forecasting 7561
Hunan 7561
seeds 923, 1465
***Xanthomonas populi***
*Populus*, Pakistan 3140
*Salix*
New Zealand 7101
Pakistan 3140
pathogenicity 7101
taxonomy, new species 3251
***Xanthomonas populi* subsp. *populi*, *Populus*, testing 1154, 7921**
***Xanthosoma*, diseases, quarantine 991**
***Xanthosoma sagittifolium***
dasheen mosaic potyvirus, Cuba 2820
root rots
breeding 4536
Cameroon 4536
***Xerocomus badius*, *Pinus radiata*, mycorrhizas 2502**
***Xiphinema americanum*, transmission, tomato ringspot nepovirus 3814**
***Xiphinema diversicaudatum***
transmission
arabis mosaic nepovirus 4887
strawberry latent ringspot nepovirus 3201, 6351
***Xiphinema index*, transmission, grapevine fanleaf nepovirus 1067, 8631**
**XRD-563**
control
*Erysiphe graminis*
barley 8262
wheat 8262
***Xylaria***
Canada 7377
taxonomy, keys 7377
USA 7377
***Xylaria arbuscula*, *Macadamia*, decline 7813-7814**
***Xyleborus similis*, transmission, *Fusarium solani* 4796**
***Xylella*, shade trees, control 3129**
***Xylella fastidiosa***
crops, reviews 1595
grapes
elimination 6194
tissue culture 6194
molecular genetics
plasmids 3252
restriction fragment length polymorphism 16
peaches, roots 470
pears, Taiwan 7745
*Platanus occidentalis*, pathogenicity 4815
*Ulmus americana*, pathogenicity 4815
**Yam mosaic potyvirus**
yams
Côte d'Ivoire 4534
yield losses 4534
**Yams** (*Dioscorea* spp.)
*Cylindrocarpon lichenicola*, India 3741
diseases
breeding 8472
quarantine 990
*Glomerella cingulata*
Assam 2414
symptoms 4535
postharvest decay, control 6068
yam mosaic potyvirus
Côte d'Ivoire 4534
yield losses 4534
**Yemen**, faba beans, phyllody 8431
**Yugoslavia** (*see also* Croatia; Slovenia)
apples, *Venturia inaequalis* 2945
apricots, plum pox potyvirus 3834

**Yugoslavia** *cont.*
*Capsicum*, tobacco mosaic tobamovirus 8574
*Carduus pycnocephalus*, diseases 2421
cherries, *Glomerella cingulata* 6160
*Coriandrum sativum*, *Pseudomonas* 4015
cowpeas, blackeye cowpea mosaic potyvirus 6027
maize
barley yellow dwarf luteovirus 4380, 5911
maize dwarf mosaic potyvirus 1414, 4380
storage decay 2051-2052
mine spoil, mycorrhizas 5734
peaches, prune dwarf ilarvirus 6163
pears, *Erwinia amylovora* 2934
plums, plum pox potyvirus 3834, 6158
potatoes
*Colletotrichum coccodes* 6057
potato Y potyvirus 6043-6044
*Prunus spinosa*, viruses 3833
quinces
*Erwinia amylovora* 2934
viruses 6153
*Ricinis communus*, *Pseudomonas syringae* 4718
soil, fungi 117
sorghum, maize dwarf mosaic potyvirus 5928
soyabeans, *Pseudomonas syringae* pv. *glycinea* 3680
sunflowers
diseases 4708
*Phomopsis* 2306, 3051
tobacco, potato Y potyvirus 6272
tomatoes, *Phytophthora infestans* 8556
walnuts, *Gnomonia leptostyla* 8663
wheat
barley yellow dwarf luteovirus 8271
*Erysiphe graminis* 3542, 6656
*Xanthium italicum*, *Phomopsis* 2306
**Zaire**
cassava, diseases 6831
crops, mycorrhizas 4171
oil palms, *Fusarium oxysporum* f.sp. *elaeidis* 4711
*Phaseolus vulgaris*, *Rhizoctonia solani* 5989
*Physalis angulata*, *Cercospora nicotianae* 4763
*Physalis pubescens*, *Cercospora nicotianae* 4763
soyabeans, *Rhizoctonia solani* 5989
tobacco, *Cercospora nicotianae* 4763
**Zambia**
*Pennisetum americanum*, *Fusarium* 3505
sorghum, *Fusarium* 3505
wheat, diseases 8274
***Zantedeschia aethiopica***
tomato spotted wilt tospovirus
Italy 4872
symptoms 4872
***Zea mays*** (*see* Maize)
**Zimbabwe**
*Eucalyptus*, Aphyllophorales 2379
passion fruits
*Fusarium solani* 4657
*Phytophthora nicotianae* var. *parasitica* 4657
*Pennisetum americanum*, *Fusarium* 3505, 5038
pesticides, usage 8083
*Pinus*, Aphyllophorales 2379
soil, *Fusarium* 5038
sorghum
*Claviceps africana* 5932
*Fusarium* 3505, 5038
*Peronosclerospora sorghi* 1444, 2720, 3608
tobacco, diseases 8715
vegetables, diseases 8083
watermelons, zucchini yellow mosaic potyvirus 5357
***Zimmermanniella trispora***, IMI descriptions 1903
**Zinc**
activity
*Pyrenophora graminea*, barley 5897
*Spongospora subterranea*, potatoes 6058
**Zinc** *cont.*
activity *cont.*
*Xanthomonas campestris* pv. *vesicatoria*
*Capsicum* 1010
tomatoes 1010
control
lettuces, ring necrosis 7666
*Peronospora destructor*, onions 425
**Zineb**
activity
*Alternaria alternata* 686
*Pleospora betae*, fodder beet 3086
rye, diseases 2622
wheat, diseases 2622
control
*Ascochyta rabiei*, chickpeas 6801
beet yellows closterovirus, sugarbeet 3086
*Colletotrichum capsici*, *Capsicum* 2204
*Colletotrichum orbiculare*, watermelons 1035
*Erysiphe betae*, sugarbeet 3086
*Mycosphaerella*, groundnuts 1637
*Myrothecium roridum*, cotton 4779
*Peronospora destructor*, onions 425
*Phytophthora infestans*, potatoes 398
pigeon peas, seedborne fungi 3706
*Pleospora betae*, sugarbeet 3086
*Podosphaera leucotricha*, apples 2939
*Pseudoperonospora cubensis*
cucumbers 1036
melons 2920
*Puccinia recondita*, wheat 2641, 3530
*Pyricularia oryzae*, rice 2739
*Ustilago scitaminea*, sugarcane 6257
*Venturia inaequalis*, apples 2939
fungicide residues
determination 6432
ethylenethiourea 6430
fruit 78
health hazards 6436
vegetables 78, 1830
seed treatment
fodder beet 3086
maize 5850
rice 5850
sugarbeet 3086
wheat 5850
***Zingiber cassumunar***, plant extracts, antifungal agents 3319
***Zingiber mioga***
mycorrhizas, Honshu 7296
*Pyricularia zingiberi*
Japan 8827
symptoms 8827
*Pythium zingiberum*
control 7149
Kyushu 7149
***Zingiber officinale***
*Fusarium*
Maharashtra 3196
Nematoda 3196
*Phoma exigua* var. *exigua*, India 7979
plant extracts, antifungal agents 6999
*Pseudomonas solanacearum*, tissue culture 4878
*Pyricularia zingiberi*
Japan 8827
symptoms 8827
*Pythium*, tissue culture 4878
*Pythium aphanidermatum*, Nematoda 8826
***Zinnia***, *Alternaria zinniae*, West Bengal 752
**Ziram**
activity
*Alternaria helianthi* 2310
groundnuts, mycorrhizas 5737
control
*Alternaria alternata*, chickpeas 968
*Camptomeris albizziae*, *Albizia lebbek* 8780
*Cladosporium caryigenum*, pecans 4692
*Colletotrichum orbiculare*, watermelons 1035
*Corticium rolfsii*, chickpeas 4497
*Elsinoë ampelina*, grapes 1073
*Erysiphe polygoni*, *Vigna radiata* 383
**Ziram** *cont.*
control *cont.*
*Fusarium oxysporum* f.sp *ciceris*, chickpeas 4497
*Mycosphaerella*, groundnuts 1637
*Phomopsis amygdali*, peaches 4631
*Rhizoctonia solani*, chickpeas 4497
*Taphrina deformans*, peaches 7760
***Zizania aquatica***, *Bipolaris zizaniae*, biology 8394
***Zizania palustris***
*Cochliobolus miyabeanus*, Minnesota 2754
*Cochliobolus sativus*, Minnesota 2754
***Ziziphus mauritiana***
*Cladosporium cladosporioides*, Assam 5780
fungicide residues, determination 4100
*Oidium erysiphoides*
Andhra Pradesh 4685
control 4685
plant extracts, antifungal agents 6718
*Tandonella zizyphi*, Assam 5780
witches' brooms
mycoplasma-like organisms 1612
transmission 1612
***Ziziphus nummularia***, plant extracts, antifungal agents 691
***Ziziphus sativa***
*Calonectria kyotensis*, Korea Republic 8759
mycoplasma-like organisms
inoculation 627
varietal reactions 627
witches' brooms 627
*Phakopsora ziziphi-vulgaris*
spore germination 7804
survival 7804
witches' brooms, control 2272
***Zopfia rhizophila***
asparagus
Poland 8531
roots 8531
***Zoysia japonica***, *Gaeumannomyces graminis* var. *graminis*, Illinois 3176
**Zucchini** (*see* Marrows)
**Zucchini yellow mosaic potyvirus**
cucumbers
mixed infections 8588
Singapore 443
symptoms 5363
*Cucurbita maxima*, varietal reactions 5358
*Cucurbita pepo*, transmission 8586
Cucurbitaceae, France 6889
marrows
coat proteins 1030
control 4596, 5351
Czechoslovakia 3790
detection 1030
epidemiology 1561
induced resistance 2208, 3786
Nepal 1561
seeds 3786
transmission 5351, 7706
UK 2208
vectors 4594
melons, genetic engineering 6588
molecular genetics
coat proteins 5069
nucleotide sequences 7405
transmission 5069
*Nicotiana benthamiana*
genetic transformation 212, 6589
induced resistance 212
transmission 6589
squashes, Turkey 4597
strains 179
tobacco, genetic engineering 6588
watermelons
genetics 5357
Zimbabwe 5357
**Zygomycotina**, Australasia, nomenclature 694
***Zygophiala jamaicensis***
apples
control 3819
USA 3819
***Zygorrhynchus moelleri***, control, roots, pathogens 118

# LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1993 for this journal. All the titles are given in full, except abbreviated titles taken from secondary publications such as *Referativnyi Zhurnal*.
Many other serials were scanned during 1993 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition.* The publication includes ISSNs and publishers' addresses.

ACS Symposium Series
Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura
Acta Agriculturae Boreali-Sinica
Acta Agriculturae Shanghai
Acta Agriculturae Universitatis Henanensis
Acta Agriculturae Universitatis Jiangxiensis
Acta Agriculturae Universitatis Pekinensis
Acta Agriculturae Universitatis Zhejiangensis
Acta Agriculturae Zhejiangensis
Acta Agronomica Hungarica
Acta Agronomica Sinica
Acta Botanica Croatica
Acta Botanica Indica
Acta Botánica Malacitana
Acta Botanica Neerlandica
Acta Botanica Sinica
Acta Botanica Yunnanica
Acta Cientifica Venezolana
Acta Entomologica Bohemoslovaca
Acta Genetica Sinica
Acta Horticulturae
Acta Horticulturae Sinica
Acta Instituti Forestalis Zvolensis
Acta Microbiologica Bulgarica
Acta Microbiologica Sinica
Acta Mycologica
Acta Mycologica Sinica
Acta Oecologica
Acta Pathologica, Microbiologica et Immunologica Scandinavica
Acta Pedologica Sinica
Acta Phytopathologica et Entomologica Hungarica
Acta Phytopathologica Sinica
Acta Phytophylactica Sinica
Acta Phytophysiologica Sinica
Acta Societatis Botanicorum Poloniae
Acta Universitatis Agriculturalis Boreali-Occidentalis
Advances in Disease Vector Research
Advances in Horticultural Science
Advances in Plant Sciences
Advisory Bulletin - NSW Agriculture & Fisheries
Aerobiologia
African Journal of Agricultural Sciences
Afrique Agriculture
Afro-Asian Journal of Nematology
Agricoltura Mediterranea
Agricultura em São Paulo
Agricultura Técnica (Santiago)
Agricultural and Biological Chemistry
Agricultural Research Journal of Kerala
Agricultural Research Review
Agricultural Reviews (Karnal)
Agricultural Science Digest
Agricultural Science in Finland
Agricultural Situation in India
Agricultural Systems
Agriculture and Horticulture
Agriculture International
Agriculture, Ecosystems & Environment
Agro Food Industry Hi-Tech
Agro Sur
Agro-Chemicals News in Brief
Agro-Industry Hi-Tech
Agroforestry Today
Agrokémia és Talajtan
Agrokhimiya
Agromonía Tropical (Maracay)
Agronomía Colombiana
Agronomía Costarricense
Agronomie
Agronomie Tropicale
Agronomy and Soils Departmental Series - Alabama Agricultural Experiment Station
Agronomy Journal
Agropecuária Catarinense
Agrotecnia de Cuba
Agrotrópica
Al Awamia
Allgemeine Forst- und Jagdzeitung
Allionia
Alon Hanotea
Ambio
American Camellia Yearbook
American Entomologist
American Journal of Alternative Agriculture
American Journal of Botany
American Journal of Enology and Viticulture
American Orchid Society Bulletin
American Potato Journal
Amtliche Pflanzenschutzbestimmungen
Analele Institutului de Cercetări pentru Cereale şi Plante Tehnice, Fundulea
Anales de Biología
Analytical Biochemistry
Analytical Chemistry (Washington)
Angewandte Botanik
Angewandte Botanik Berichte
Animal Feed Science and Technology
Ankara Üniversitesi Ziraat Facültesi Yayınları
Annales des Sciences Forestières
Annales du Tabac. Section 2.
Annali dell'Istituto Sperimentale per la Patologia Vegetale
Annali dell'Istituto Sperimentale per il Tabacco
Annali della Facoltà di Scienze Agrarie della Università degli Studi di Torino
Annali di Microbiologia ed Enzimologia
Annals of Agricultural Science, Moshtohor
Annals of Applied Biology
Annals of Biology (Ludhiana)
Annals of Botany
Annals of the Phytopathological Society of Japan
Annual Report of the Hokkaido Research Center, Forestry and Forest Products Research Institute
Annual Report of the Society of Plant Protection of North Japan
Annual Review of Ecology and Systematics
Annual Review of Microbiology
Antonie van Leeuwenhoek
Applied and Environmental Microbiology
Applied Entomology and Phytopathology
Applied Entomology and Zoology
Applied Microbiology and Biotechnology
Aquatic Botany
Arab Journal of Plant Protection
Araştırma Yayınları Serisi Yayın
Arboriculture Fruitière
Arboriculture Research Note - Department of the Environment, UK
Archiv für Phytopathologie und Pflanzenschutz
Archiv für Züchtungsforschung
Archives of Animal Nutrition
Archives of Environmental Contamination and Toxicology
Archives of Virology
Arid Soil Research and Rehabilitation
Arkansas Farm Research
Arnoldia (Boston)
Arroz
Arroz en las Americas
ASA Special Publication
ASCOLFI Informa
Aspects of Applied Biology
Assiut Journal of Agricultural Sciences
ATAC, Revista de la Asociación de Tecnicos Azucareros de Cuba
Atmospheric Environment. Part A, General Topics
Australasian Plant Pathology
Australian & New Zealand Wine Industry Journal
Australian Journal of Agricultural Research
Australian Journal of Botany
Australian Journal of Chemistry

Australian Journal of Ecology
Australian Journal of Experimental Agriculture
Australian Systematic Botany
Avance Agroindustrial
Bahçe
Bangladesh Journal of Agricultural Research
Bangladesh Journal of Agricultural Sciences
Bangladesh Journal of Sugarcane
Banko Janakari
Barley Genetics Newsletter
Bayerisches Landwirtschaftliches Jahrbuch
BCPC Monograph
Beiträge für die Forstwirtschaft
Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
Better Crops with Plant Food
Bharatiya Sugar
Bibliographies and Literature of Agriculture
Bibliotheca Mycologica
Bio/Technology
Biochemical and Biophysical Research Communications
Biochemical Journal (London)
Biochemical Society Transactions
Biochemical Systematics and Ecology
Biochemie und Physiologie der Pflanzen
Biocontrol Science and Technology
Biologia (Bratislava)
Biologia Plantarum
Biological Agriculture & Horticulture
Biological Control
Biological Reviews of the Cambridge Philosophical Society
Biologicheskiĭ Zhurnal Armenii
Biológico
Biology and Fertility of Soils
Biology Education
Biology of the Cell
Biomedical Letters
BioMetals
Biometrics
Bioscience
Bioscience, Biotechnology and Biochemistry
Biotech Forum Europe
Biotechnic & Histochemistry
Biotechnology Advances
Biotechnology and Development Monitor
Biotechnology Letters
Biotekhnologiya
Bioved
Biovigyanam
Bitki Koruma Bulteni
Biuletyn Instytutu Hodowli i Aklimatyzacji Roślin
Biuletyn Instytutu Ziemniaka
Bodenkultur
Boletim Técnico - Empresa Pesquisa Agropecuária e Difusão de Tecnologia de Santa Catarina S.A.
Boletim Tecnico - Comissao Executivo do Plano da Lavoura Cacaueira
Boletín de Sanidad Vegetal, Fuera de Serie
Boletín de Sanidad Vegetal, Plagas
Boletin Informativo - Manejo Integrado de Plagas
Boletín Micológico
Boletín Técnico, Estación Experimental de Mercedes, Buenos Aires
Bosque
Botanica Acta
Botanica Helvetica
Botanical Bulletin of Academia Sinica
Botanical Gazette
Botanical Journal of the Linnean Society
Bothalia
Bragantia
Brenesia
British Sugar Beet Review
Brittonia
Buletín de Sanidad Vegetal, Plagas
Buletin Penelitian Hutan
Buletinul Academiei de Ştiinţe a Republicii Moldova. Ştiinţe Biologice şi Chimice
Bulletin - Illinois Natural History Survey
Bulletin - Louisiana Agricultural Experiment Station
Bulletin - Texas Agricultural Experiment Station
Bulletin d'Information - CORESTA
Bulletin de la Société Botanique de France, Actualités Botaniques
Bulletin des Recherches Agronomiques de Gembloux
Bulletin OEPP
Bulletin of Agricultural Science and Technology
Bulletin of Entomological Research
Bulletin of Environmental Contamination and Toxicology
Bulletin of Faculty of Agriculture, University of Cairo
Bulletin of Taichung District Agricultural Improvement Station
Bulletin of Taiwan Tobacco Research Institute, Taiwan Tobacco & Wine Monopoly Bureau
Bulletin of the Agricultural Chemicals Inspection Station, Tokyo
Bulletin of the Aomori Agricultural Experiment Station
Bulletin of the Chiba Prefectural Agricultural Experiment Station
Bulletin of the Faculty of Agriculture, Saga University
Bulletin of the Forestry and Forest Products Research Institute, Ibaraki
Bulletin of the Fruit Tree Research Station
Bulletin of the Hiroshima Prefectural Agriculture Research Center
Bulletin of the Hokuriku National Agricultural Experiment Station
Bulletin of the Kyushu National Agricultural Experiment Station
Bulletin of the Nara Agricultural Experiment Station
Bulletin of the National Agriculture Research Centre, Japan
Bulletin of the Universiy of Osaka Prefecture. Series B, Agriculture and Biology
Bulletin OILB/SROP
Bulletin SROP
Byulleten' Glavnogo Botanicheskogo Sada
Byulleten' Vsesoyuznogo Instituta Gel'mintologii im. K. I. Skryabina
Café, Cacao, Thé
Cahiers Agricultures
California Agriculture
Camellia Journal
Canadian Biodiversity
Canadian Entomologist
Canadian Journal of Botany
Canadian Journal of Forest Research
Canadian Journal of Microbiology
Canadian Journal of Plant Pathology
Canadian Journal of Plant Science
Canadian Plant Disease Survey
Capsicum Newsletter
Catena, Supplement
Ceiba
Cell (Cambridge)
Centralblatt für das Gesamte Forstwesen
Centro Agrícola
Cercetări Agronomice în Moldova
Cereal Research Communications
Cereal Rusts and Powdery Mildews Bulletin
Ceylon Journal of Science, Biological Sciences
Champignon
Chemical and Pharmaceutical Bulletin
Chemical Regulation of Plants
Chemistry and Industry (London)
Chemistry in Britain
Chemoecology
Chemosphere
China Citrus
China Fruits
Chinese Journal of Biological Control
Chinese Journal of Biotechnology
Chinese Journal of Entomology
Chinese Journal of Rice Science
Chinese Journal of Virology
Chinese Science
Chinese Vegetables
Chmelařství
Ciência Biológica, Molecular and Cellular Biology
Ciência e Cultura (São Paulo)
Ciência e Prática
Ciência e Técnica Vitivinícola
Ciência Rural
Ciencia y Técnica en la Agricultura, Tabaco
Ciencias de la Agricultura
Científica (Jaboticabal)
CIP Research Guide
Citrus Journal
Cocoa Growers' Bulletin
Coletânea do Instituto de Tecnologia de Alimentos
Colture Protette
Combined Proceedings - International Plant Propagators' Society
Comments from CAST
Commonwealth Forestry Review
Communicado Ténico - Empresa de Pesquisa Agropecuária do Estado do Rio de Janeiro
Compte Rendus des Essais - Union Nationale Interprofessionnelle des Légumes Transformés
Comptes Rendus de l'Académie Bulgare des Sciences
Comptes Rendus de l'Académie d'Agriculture de France
Comptes Rendus de l'Académie des Sciences. Series 3, Sciences de la Vie
Computers and Electronics in Agriculture
Comunicado Técnico - Empresa de Pesquisa Agropecuária do Estado do Rio de Janeiro
Coolia
Cooperative Sugar
Coton et Fibres Tropicales
CRC Critical Reviews in Food Science and Nutrition
Critical Reviews in Plant Sciences
Crop Chemicals Guide
Crop Genetic Resources
Crop Improvement
Crop Protection
Crop Research (Hisar)

Crop Science
Cryptogamic Botany
Cryptogamie, Mycologie
Cultivar (Paris)
Current Genetics
Current Microbiology
Current Nematology
Current Opinion in Biotechnology
Current Research - University of Agricultural Sciences (Bangalore)
Current Science
Current Topics in Plant Biochemistry and Physiology
Cytobios
Cytologia
Danish Journal of Plant and Soil Science - Special Series Report
Deciduous Fruit Grower
Difesa delle Piante
Discovery and Innovation
Distribution Maps of Plant Diseases
Diversity
DLG-Mitteilungen Agrar-Inform
Documentación e Información — Manejo Integrado de Plagas
Doğa, Türk Biyoloji Dergisi
Doğa, Türk Botanik Dergisi
Doğa, Türk Tarım ve Ormancılık Dergisi
Doklady Akademii Nauk Belarusi
Doklady Akademii Nauk BSSR
Doklady Botanical Sciences
Doklady Vsesoyuznoĭ Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaĭstvennykh Nauk im. V.I Lenina
Doklady, Biological Sciences
Doklady, Botanical Sciences
Drevársky Výskum
DSIR Plant Protection Report
Ecology
Economia Montana - Linea Ecologica
Economic Botany
Ecossistema
Ecotoxicology and Environmental Safety
Edible Fungi of China
Eesti NSV Teaduste Akadeemia Toimetised, Bioloogia
Eesti Teaduste Akadeemia Toimetised, Bioloogia
Ege Üniversitesi Ziraat Fakültesi Dergisi
Egyptian Journal of Botany
Ekológia, ČSFR
Ekologija
Eksperimentinė Biologija
Elaeis
EMBO Journal
Emirates Journal of Agricultural Sciences
Entomologia Experimentalis et Applicata
Environment and Ecology
Environmental Entomology
Environmental Health Criteria
Environmental Monitoring and Assessment
Environmental Pollution
Environmental Science & Technology
Environmental Technology
Environmental Toxicology and Chemistry
Environmental Toxicology and Water Quality
Enzyme and Microbial Technology
EPPO Technical Document
Erwerbsobstbau
Euphytica
EUR Report
European Journal of Biochemistry
European Journal of Forest Pathology
Evergreen (Trichur)
Evolution
Evolutionary Ecology
Experimental & Applied Acarology
Experimental Mycology
Extension Bulletin - Cooperative Extension, College of Agriculture & Home Economics, Washington State University
FABIS Newsletter
FAO Plant Production and Protection Paper
FAO Plant Protection Bulletin
Farm Chemicals
FASEB Journal
FBVA Berichte
FEBS Letters
Feddes Repertorium
FEMS Microbiology Ecology
FEMS Microbiology Letters
Fen Bilimleri Enstitusu Dergisi
Fertilizer Research
Fitopatología
Fitopatología Colombiana
Fitopatología Venezolana
Fitoterapia
Fiziologiya i Biokhimiya Kul'turnykh Rasteniĭ
Fiziologiya Rasteniĭ
Flora Polska
Folia Forestalia
Folia Horticulturae
Folia Microbiologica
FONAIAP Divulga
Food and Agricultural Immunology
Food and Agricultural Legislation
Food Biotechnology
Food Chemistry
Food Laboratory News
Food Technology (Chicago)
Forest Ecology and Management
Forest Science
Forestry (Oxford)
Forêt Méditerranéenne
Forêt-Entreprise
Forstarchiv
Forstwissenschaftliche Forschungen
Forstwissenschaftliches Centralblatt
Fourrages
Fresenius' Journal of Analytical Chemistry
Fruit Science Reports
Fruit Varieties Journal
Fruits (Paris)
FRUT - Revista de Fruticultura
Fujian Agricultural Science and Technology
Fundamental and Applied Nematology
Fungicide and Nematicide Tests
Garcia de Orta. Série de Estudos Agronómicos
Gartenbau
Gartenbauwissenschaft
Gatekeeper Series - Sustainable Agriculture Programme, International Institute for Environment and Development
Gazeta Cukrownicza
Gb + Gw, Gärtnerbörse und Gartenwelt
Gene
Genes & Development
Genetika (Moskva)
Genetika a Šlechtění
Genetika i Selektsiya
Genome
Geobios New Reports
Georgia Forest Research Paper
Gesunde Pflanzen
GIS Europe
Gozdarski Vestnik
Grana
Grass and Forage Science
Groundnut News
GrowerTalks
Guihaia
Harvest (Port Moresby)
Haryana Agricultural University Journal of Research
Hassadeh
Helia
Herba Gallica
Hereditas (Landskrona)
Heredity
HGCA Project Report
Highlights of Agricultural Research, Alabama Agricultural Experiment Station
Himachal Journal of Agricultural Research
Hindustan Antibiotics Bulletin
Hojas Divulgadoras - Ministerio de Agricultura, Pesca y Alimentación
Holz als Roh- und Werkstoff
Holzforschung
Holzzucht
Horticultura Brasileira
Horticulture in New Zealand
Horticulturist
HortScience
HortTechnology
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans
IAWA Bulletin
IDRC Manuscript Reports
IIHR News
IMPACT AgBioBusiness
Indian Botanical Reporter
Indian Cocoa, Arecanut and Spices Journal
Indian Coconut Journal (Cochin)
Indian Farming
Indian Forester
Indian Journal of Agricultural Research
Indian Journal of Agricultural Sciences
Indian Journal of Applied and Pure Biology
Indian Journal of Biochemistry & Biophysics
Indian Journal of Dryland Agriculture Research and Development
Indian Journal of Ecology
Indian Journal of Entomology
Indian Journal of Experimental Biology

Indian Journal of Forestry
Indian Journal of Genetics & Plant Breeding
Indian Journal of Hill Farming
Indian Journal of Horticulture
Indian Journal of Microbiology
Indian Journal of Mycology and Plant Pathology
Indian Journal of Natural Rubber Research
Indian Journal of Nematology
Indian Journal of Pharmaceutical Sciences
Indian Journal of Plant Protection
Indian Journal of Pulses Research
Indian Journal of Sericulture
Indian Journal of Virology
Indian Journal of Weed Science
Indian Perfumer
Indian Phytopathology
Indonesian Agricultural Research & Development Journal
Indonesian Journal of Crop Science
Industria Saccarifera Italiana
Industrial Crops Research Journal
Informaciones Tecnicas, Departamento de Agricultura, Ganadería y Montes, Diputación General de Aragón
Information Report - Forestry Canada, Maritimes
Information Report - Maritimes Region, Forestry Canada
Information Report - Newfoundland and Labrador Region, Forestry Canada
Information Report - Northern Forestry Centre, Canadian Forestry Service
Information Report - Pacific and Yukon Region, Forestry Canada
Information Report - Pacific Forestry Centre, Canadian Forestry Service
Information Report - Petawawa National Forestry Institute, Forestry Canada
Informatore Agrario
Informatore Fitopatologico
Infos (Paris)
Inligtingsbulletin - Instituut vir Tropiese en Subtropiese Gewasse
Insect Knowledge
INTA Información para Extensionistas
International Camellia Journal
International Chickpea Newsletter
International Journal of Insect Morphology & Embryology
International Journal of Mycology and Lichenology
International Journal of Pharmacognosy
International Journal of Plant Sciences
International Journal of Systematic Bacteriology
International Journal of Tropical Agriculture
International Journal of Tropical Plant Diseases
International Journal on Endocytobiosis and Cell Research
International Pest Control
International Pigeonpea Newsletter
International Rice Research Newsletter
Intervirology
Investigación Agraria, Producción y Protección Vegetales
IPM Practitioner
Iranian Journal of Plant Pathology
Irrigation Science
Israel Journal of Entomology
ITEA, Producción Vegetal
Izvestiya Akademii Nauk Kazakhskoĭ SSR. Seriya Biologicheskaya
Izvestiya Akademii Nauk SSSR. Seriya Biologicheskaya
Izvestiya Rossiĭskoĭ Akademii Nauk. Seriya Biologicheskaya
Izvestiya Timiryazevskoĭ Sel'skokhozyaĭstvennoĭ Akademii
Japan Pesticide Information
Japanese Journal of Breeding
Japanese Journal of Nematology
Japanese Journal of Soil Science and Plant Nutrition
Japanese Journal of Toxicology and Environmental Health
Japanese Journal of Tropical Agriculture
JARQ, Japan Agricultural Research Quarterly
Jiangsu Agricultural Sciences
Jiangsu Journal of Agricultural Sciences
Journal - American Society of Sugar Cane Technologists
Journal of Agricultural and Food Chemistry
Journal of Agricultural Economics
Journal of Agricultural Entomology
Journal of Agricultural Research of China
Journal of Agricultural Science
Journal of Agricultural Science in Finland
Journal of Agricultural Science, Tokyo Nogyo Daigaku
Journal of Agriculture and Forestry
Journal of Agriculture of the University of Puerto Rico
Journal of Agronomic Education
Journal of Agronomy and Crop Science
Journal of Analytical Chemistry
Journal of Applied Bacteriology
Journal of Applied Ecology
Journal of Applied Meteorology
Journal of Applied Seed Production
Journal of Bacteriology
Journal of Basic Microbiology
Journal of Biological Chemistry
Journal of Biological Education
Journal of Biotechnology
Journal of Cereal Science
Journal of Chemical Ecology
Journal of Chromatography
Journal of Coffee Research
Journal of Ecology (Oxford)
Journal of Economic Entomology
Journal of Ecotoxicology & Environmental Monitoring
Journal of Entomological Research
Journal of Entomological Science
Journal of Environmental Biology
Journal of Environmental Health
Journal of Environmental Horticulture
Journal of Environmental Quality
Journal of Environmental Science and Health. Part A, Environmental Science and Engineering
Journal of Environmental Science and Health. Part B, Pesticides, Food Contaminants, and Agricultural Wastes
Journal of Ethnopharmacology
Journal of Experimental Botany
Journal of Food Protection
Journal of Fruit Science
Journal of Fujian Agricultural College
Journal of General and Applied Microbiology
Journal of General Microbiology
Journal of General Virology
Journal of Genetics & Breeding
Journal of Guangxi Agricultural College
Journal of Hebei Agricultural University
Journal of Heredity
Journal of Horticultural Science
Journal of Huazhong Agricultural University
Journal of Industrial Microbiology
Journal of Inorganic Biochemistry
Journal of Insect Science
Journal of Jilin Agricultural University
Journal of Liquid Chromatography
Journal of Maharashtra Agricultural Universities
Journal of Microbiological Methods
Journal of Microscopy
Journal of Molecular Biology
Journal of Mycopathological Research
Journal of Nanjing Agricultural University
Journal of Natural Products
Journal of Natural Rubber Research
Journal of Natural Toxins
Journal of Nematology
Journal of Northeast Agricultural College
Journal of Nuclear Agriculture and Biology
Journal of Oilseeds Research
Journal of Pesticide Science
Journal of Phytopathology
Journal of Plant Nutrition
Journal of Plant Physiology
Journal of Production Agriculture
Journal of Research - Rajendra Agricultural University
Journal of Research, Punjab Agricultural University
Journal of Root Crops
Journal of Seed Technology
Journal of Shandong Agricultural Science
Journal of Shandong Agricultural University
Journal of Shanghai Agricultural College
Journal of Shenyang Agricultural University
Journal of Sichuan Agricultural University
Journal of Small Fruit & Viticulture
Journal of Soils and Crops
Journal of South China Agricultural University
Journal of Southern African Society for Horticultural Sciences
Journal of Southwest Agricultural University
Journal of Spices and Aromatic Crops
Journal of Stored Products Research
Journal of Sugar Beet Research
Journal of Sustainable Forestry
Journal of the Air & Waste Management Association
Journal of the American Oil Chemists' Society
Journal of the American Society for Horticultural Science
Journal of the Andaman Science Association
Journal of the Assam Science Society
Journal of the Chemical Society. Perkin Transactions I
Journal of the Entomological Society of British Columbia
Journal of the Faculty of Agriculture, Hokkaido University
Journal of the Faculty of Agriculture, Kyushu University
Journal of the Faculty of Agriculture, Tottori University
Journal of the Grassland Society of Southern Africa
Journal of the Indian Society for Cotton Improvement
Journal of the Indian Society of Soil Science
Journal of the Japanese Society for Horticultural Science
Journal of the Korean Agricultural Chemical Society
Journal of the Korean Society for Horticultural Science
Journal of the Korean Society of Tobacco Science

Journal of the National Botanical Society
Journal of the New York Entomological Society
Journal of the Rio Grande Valley Horticultural Society
Journal of the Royal Agricultural Society of England
Journal of the Royal Society of New Zealand
Journal of the Science of Food and Agriculture
Journal of the Southern African Society for Horticultural Sciences
Journal of the Sports Turf Research Institute
Journal of the Yamagata Agriculture and Forestry Society
Journal of Theoretical Biology
Journal of Tropical Forest Science
Journal of Tropical Forestry
Journal of Turkish Phytopathology
Journal of Virological Methods
Journal of Virology
Journal of Weed Science
Jugoslovensko Voćarstvo
Karnataka Journal of Agricultural Sciences
Kartofel' i Ovoshchi
Kartoffelbau
Kenya Coffee
Kertgazdasag
Khlopok
Korean Journal of Mycology
Krmiva
KTBL-Schrift
Kühn-Archiv
Kukuruza i Sorgo
Lands and Forests Bulletin - Lands and Forests Division, Department of Conservation, Forests and Lands, Victoria
Landwirtschaft Schweiz
Las Polski
Latvijas Zinātņnu Akadēmijas Vēstis. B Daļla, Dabaszinātnes
Lavoura Arrozeira
Legume Research
Lens
Lesnictví
Lesovedenie
Lesovedenie i Lesnoe Khozyaĭstvo
Letters in Applied Microbiology
Leucaena Research Reports
Lietuvos TSR Mokslų Akademijos Darbai, C (Biologijos Mokslai)
Lindleyana
Listy Cukrovarnické a Řepařské
Litchi Yearbook - South African Litchi Growers' Association
Louisiana Agriculture
Mała Flora Grzybów
Maandblad - Suiker Unie
Madras Agricultural Journal
Maize Genetics Cooperation Newsletter
Malaysian Applied Biology
Manejo Integrado de Plagas
Marine Environmental Research
Materiały Sesji Instytutu Ochrony Roślin
Material und Organismen
Maydica
Meddelande från Statens Utsädeskontroll
Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent
Medicina del Lavoro
Memoirs of the College of Agriculture, Ehime University
Memórias do Instituto Oswaldo Cruz
Mesopotamia Journal of Agriculture
Meterologicke Zprávy
Microbial Ecology
Microbiological Reviews
Microbiology (Beijing)
Microbiology (New York)
Microbios
Microchemical Journal
Mikológiai Közlemények
Mikologiya i Fitopatologiya
Mikrobiologicheskiĭ Zhurnal
Miscellaneous Publication - Texas Agricultural Experiment Station
Miscellaneous Publication of the Tohoku National Agricultural Experiment Station
Miscellaneous Publications of the Entomological Society of America
Miscellaneous Report - Ontario Region, Forestry Canada
Mitteilungen - Eidgenössische Anstalt für das Forstliche Versuchswesen
Mitteilungen - Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft
Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem
Mitteilungen der Deutschen Bodenkundlichen Gesellschaft
Mitteilungen der Forstlichen Bundesversuchsanstalt Wien
Mitteilungen der Forstlichen Versuchs- und Forschungsanstalt Baden-Württemberg
Mitteilungen des Vereins für Forstliche Standortskunde und Forstpflanzenzüchtung
Mitteilungen Klosterneuburg, Rebe und Wein, Obstbau und Früchteverwertung
Mokslinių Straipsnių Rinkinys
Molecular and Biochemical Parasitology
Molecular and Cellular Biology
Molecular and General Genetics
Molecular Biology and Evolution
Molecular Ecology
Molecular Microbiology
Molecular Plant-Microbe Interactions
Monograph - British Crop Protection Council
Monograph - British Society for Plant Growth Regulation
Monti e Boschi
Moscow University Biological Sciences Bulletin
Mutation Breeding Newsletter
Mycologia
Mycological Research
Mycologist
Mycopathologia
Mycorrhiza
Mycoses
Mycotaxon
Mycotoxin Research
Myforest
Mysore Journal of Agricultural Sciences
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
National Academy Science Letters
National Bank News Review (Bombay)
Nature (London)
Nauchno-Technicheskiĭ Byulleten' Vsesoyuznogo Ordena Lenina i Ordena Druzhby Narodov Nauchno-Issledovatel'skogo Instituta Rastenievodstva Imeni N.I. Vavilova
Nauchno-Tekhnicheskiĭ Byulleten; Sibirskoe Otdelenie: Sibirskiĭ Nauchno-Issledovatelskiĭ Institut Sel'skogo Khozyaĭstva
Nauchnye Doklady Vysshe˘ Shkoly, Biologicheskie Nauki
Nauka u Praksi
NCT Workshop Report
Nematologia Mediterranea
Nematropica
Netherlands Journal of Plant Pathology
New Agriculturist
New Farmer & Grower
New Forests
New Phytologist
New Scientist
New Zealand Journal of Agricultural Research
New Zealand Journal of Crop and Horticultural Science
Newsletter - Food & Fertilizer Technology Center
Newsletter - Sugarcane Breeding Institute
Newsletter of the Society of Irish Plant Pathologists
Ningxia Journal of Agri&Forestry Science and Technology
Nitrogen Fixing Tree Research Reports
Norsk Landbruksforsking
North Carolina Flower Growers' Bulletin
North Central Regional Research Publication
North Dakota Farm Research
Northern Fruits of China
Northern Horticulture
Northwest Science
Norwegian Journal of Agricultural Sciences
Nova Hedwigia
Növénytermelés
Növényvédelem
NTC Workshop Report
Nucleic Acids Research
Obstbau Weinbau
Ochrona Roślin
Oecologia
Ohio Florists' Association Bulletin
Oikos
Oil Crops of China
Oléagineux (Paris)
Oléoscope
Orchardist of New Zealand
Orissa Journal of Horticulture
Oryza
Outlook on Agriculture
Pacific Science
Pakistan Journal of Forestry
Pakistan Journal of Phytopathology
Pakistan Journal of Zoology
Pakistan Sugar Journal
Pamiętnik Puławski
Panorama Floricolo
Partners in Research for Development
PCR Methods and Applications
Peanut Science
Pedobiologia
Pelita Perkebunan
Pemberitaan Penelitian Tanaman Industri
Pennsylvania Fruit News
Periodicum Biologorum
Pesquisa Agropecuária Brasileira

Pesquisa em Andamento - Unidade de Execução de Pesquisa de Âmbito Estadual de Belém - EMBRAPA
Pest Advisory Leaflet - South Pacific Commission
Pestcide Research Journal
Pesticide Biochemistry and Physiology
Pesticide News
Pesticide Outlook
Pesticide Research Journal
Pesticide Science
Petria
Pflanzenschutz-Nachrichten Bayer (English ed.)
Pflanzenschutzberichte
Pharmazie
Philippine Agriculturist
Philippine Journal of Crop Science
Philippine Journal of Science
PHILSUTECH Proceedings
PHM Revue Horticole
Photosynthetica
Physiologia Plantarum
Physiological and Molecular Plant Pathology
Phytochemistry
Phytoma
Phyton (Buenos Aires)
Phytoparasitica
Phytopathologia Mediterranea
Phytopathologica Polonica
Phytopathology
Phytophylactica
Phytoprotection
PKV Research Journal
Plant and Cell Physiology
Plant and Soil
Plant Breeding
Plant Cell
Plant Cell Incompatibility Newsletter
Plant Cell Reports
Plant Cell, Tissue and Organ Culture
Plant Disease
Plant Disease Notice - Central Science Laboratory
Plant Disease Research
Plant Journal
Plant Molecular Biology
Plant Pathology
Plant Pathology Circular (Gainesville)
Plant Physiology
Plant Physiology and Biochemistry (Paris)
Plant Protection
Plant Protection Bulletin (Faridabad)
Plant Protection Bulletin (Taipei)
Plant Protection Quarterly
Plant Science (Limerick)
Plant, Cell and Environment
Planta
Planta Medica
Planter
Planters' Bulletin Rubber Research Institute of Malaysia
Pol'nohospodárstvo
Polish Journal of Soil Science
Poljoprivredna Znanstvena Smotra
Portugaliae Acta Biologica. Serie B.
Postharvest Biology and Technology
Postharvest News and Information
Potato Research
Prace z Zakresu Nauk Rolniczych
Prairie Naturalist
Pratacultural Science
Prirodovene Prace Ustavu Ceskoslovenske Akademie Ved v Brne
Probleme de Protecţia Plantelor
Proceedings - Annual Meeting Massachusetts Fruit Growers' Association Inc.
Proceedings - Soil and Crop Science Society of Florida
Proceedings of the Association for Plant Protection of Kyushu
Proceedings of the Entomological Society of Manitoba
Proceedings of the Entomological Society of Ontario
Proceedings of the Interamerican Society for Tropical Horticulture
Proceedings of the Japan Academy. Series B, Physical and Biological Sciences
Proceedings of the Japanese Association of Mycotoxicology
Proceedings of the Japanese Society of Sugar Beet Technologists
Proceedings of the Kansai Plant Protection Society
Proceedings of the Kanto-Tosan Plant Protection Society
Proceedings of the National Academy of Sciences of the United States of America
Proceedings of the National Science Council, Republic of China. Part B, Life Sciences
Proceedings of the Royal Society of Edinburgh. Section B, Biological Sciences
Progrès Agricole et Viticole
Progress Report - Texas Agricultural Experiment Station
Progressive Horticulture
Protoplasma
PSP Pflanzenschutz Praxis
Publicación Especial - Instituto Nacional de Investigaciones Forestales
Publication - Agriculture Canada (English ed.)
Publikatie - Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Lelystad
Quantitative Structure-Activity Relationships
Quarterly Newsletter - Asia and Pacific Plant Protection Commission
Rachis
Range Management & Agroforestry
Rapport - DLO Staring Centre, Wageningen
Rasteniev"dni Nauki
Recent Researches in Ecology, Environment and Pollution
Remote Sensing of Environment
Report - Cucurbit Genetics Cooperative
Report - Northern Region, USDA Forest Service
Report of the Taiwan Sugar Research Institute
Research & Training Newsletter (Dar es Salaam)
Research and Development Reporter
Research Bulletin - Department of Conservation and Land Management, Western Australia
Research Bulletin of the Hokkaido Agricultural Experiment Station
Research Bulletin of the Plant Protection Service, Japan
Research Bulletins of the College Experiment Forests, Hokkaido University
Research in Microbiology
Research in Virology
Research Information Note - Forestry Commission Research Division
Research Journal of Food and Agriculture
Research Publication - Mahatma Phule Krishi Vidyapeeth
Research Report - Georgia Forestry Commission
Research Report - Mississippi Agricultural and Forestry Experiment Station
Research Reports of the Forestry Research Institute (Seoul)
Research Reports of the Kochi University, Agricultural Science
Research Reports of the Rural Development Administration, Biotechnology
Research Reports of the Rural Development Administration, Crop Protection
Research Reports of the Rural Development Administration, Horticulture
Research Reports of the Rural Development Administration, Rice
Resistant Pest Management
Restoration Ecology
Résumé des Recherches - Station de Recherches de Saint-Jean-sur-Richelieu, Québec
Review of Plant Pathology
Reviews of Environmental Contamination and Toxicology
Revista Argentina de Microbiologia
Revista Árvore
Revista Biologia (Habana)
Revista Brasileira de Ciência do Solo
Revista Brasileira de Genética
Revista Brasileira de Sementes
Revista Ceres
Revista Chapingo
Revista de Agricultura (Piracicaba)
Revista de Ciencias Agropecuarias - Universidad Nacional de Cordoba Facultad de Ciencias Agropecuarias
Revista de la Facultad de Agronomia (La Plata)
Revista de la Facultad de Agronomía (Universidad de Buenos Aires)
Revista de la Facultad de Agronomía, Universidad Central de Venezuela
Revista de la Facultad de Agronomia, Universidad del Zulia
Revista de Protección Vegetal
Revista do Setor de Ciências Agrárias
Revista Forestal Baracoa
Revista Frutícola
Revista Iberoamericana de Micología
Revista Mexicana de Fitopatología
Revue Forestière Française
Revue Horticole
Revue Suisse d'Agriculture
Revue Suisse de Viticulture, d'Arboriculture et d'Horticulture
Risk Analysis
Rivista Argentina de Microbiología
Rivista de la Facultad de Agronomica, Universidad del Zulia
Rivista di Agricoltura Subtropicale e Tropicale
Rivista di Frutticoltura e di Ortofloricoltura
Rivista di Micologia
Rivista di Patologia Vegetale
Rivista di Viticoltura e di Enologia
RLAC-PROVEC
Roczniki Akademii Rolniczej w Poznaniu, Ogrodnictwo
Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna
Rostlinná Výroba
Rubber Board Bulletin
Rumipamba
Rural Research
SAAS Bulletin of Biochemistry and Biotechnology
Sachel PV Info

Sadovodstvo i Vinogradarstvo
Sahel PV Info
Sakharnaya Svekla
Sakharnaya Svekla: Proizvodstvo i Pererabotka
Samaru Journal of Agricultural Research
Sarhad Journal of Agriculture
Savremena Poljoprivreda
Sborník - Vysoká Škola Zemědělská v Praze, Agronomická Fakulta v Českých Budějovicích, Fytotechnická Řada
Sborník ÚVTIZ, Ochrana Rostlin
Sborník Vysoké Školy Zemědělské v Praze, Fakulta Agronomická. Řada A, Rostlinná Výroba
Sborník-Jihočeská Univerzita Zemědělská Faculta, České Budějovice. Fytotechnická Řada
Schriften des Forschungsinstitutes für Schnellwachsende Baumarten
Schriftenreihe des Bundesministers für Ernährung, Landwirtschaft und Forsten. Reihe A, Angewandte Wissenschaft
Schweizerische Zeitschrift für Forstwesen
Schweizerische Zeitschrift für Obst- und Weinbau
Science (Washington)
Science of the Total Environment
Scientia Agricultura Sinica
Scientia Horticulturae
Scientific Reports of the Miyagi Agricultural College
Scientific Studies - OSEVA Research Institute for Fodder Plants, OSEVA Breeding Institute for Fodder Plants
Seed and Plant
Seed Science and Technology
Sel'skokhozyaĭstvennaya Biologiya
Selektsiya i Semenovodstvo (Moskva)
Selskostopanska Nauka
Sementi Elette
Seminars in Virology
Sexual Plant Reproduction
Shaanxi Journal of Agricultural Sciences
Shade Tree
Shanxi Guoshu
Shell Agriculture
Sibirskiĭ Biologicheskiĭ Zhurnal
Sibirskiĭ Vestnik Sel'skokhozyaĭstvennoĭ Nauki
Silva Fennica
Silvae Genetica
Simiente
Singapore Journal of Primary Industries
Sjemenarstvo
Småskrift - SFFL
Soil & Tillage Research
Soil Biology & Biochemistry
Soil Science
Soil Science and Plant Nutrition
Soil Science Society of America Journal
Sorghum Newsletter
South African Forestry Journal
South African Journal of Botany
South African Journal of Enology and Viticulture
South African Journal of Plant and Soil
South African Journal of Science
South Indian Horticulture
Southern Journal of Applied Forestry
Southwest China Journal of Agricultural Sciences
Southwestern Entomologist
Soviet Agricultural Sciences
Soviet Biotechnology
Soviet Plant Physiology
Soybean Genetics Newsletter
Soybean Science
Sozialistische Forstwirtschaft
Station Bulletin of the Idaho Forest, Wildlife and Range Experiment Station
Studia Universitatis Babeş-Bolyai, Biologia
Studii şi Cercetări de Biologie, Biologie Vegetală
Studijní Informace, Rostlinná Výroba
Subtropicheskie Kul'tury
Suelo y Planta
Sugar Cane
Sugar Journal
Šumarski List
Summa Phytopathologica
Surinaamse Landbouw
Sveriges Utsädesförenings Tidskrift
Sylvatrop
Systematic and Applied Microbiology
Taiwan Agriculture Bimonthly
Tea
Technical Bulletin - Cyprus Agricultural Research Institute
Technical Bulletin - Food and Fertilizer Technology Center
Technical Bulletin - North Carolina Agricultural Research Service
Technical News - Institute of Radiation Breeding
Technical Paper - Forestry Commission of NSW
Tecnica Molitoria
Tennessee Farm and Home Science
Terra e Sole
Testarea Pesticidelor
Tests of Agrochemicals and Cultivars
Texas Journal of Science
Theoretical and Applied Genetics
Tidsskrift for Planteavl
Tidsskrift for Planteavls Specialserie
Topola
Toxicology
Transactions of the National Academy of Science and Technology
Transgenic Research
Tree Physiology
Tree Planters' Notes
Trees: Structure and Function
Trends in Biotechnology
Trends in Ecology & Evolution
Trends in Genetics
Tri-ology Technical Report
Tropical Agriculture
Tropical Agriculture Research Series
Tropical Grasslands
Tropical Pest Management
Tropical Science
Tropicultura
Tsitologiya i Genetika
Turrialba
UCLA Symposia on Molecular and Cellular Biology
UCPMG Publication
Ukraïns'kiĭ Botanīchniĭ Zhurnal
Uspekhi Sovremennoĭ Biologii
Ŭzbekiston Biologiya Zhurnali
Uzbekskiĭ Biologicheskiĭ Zhurnal
Van Vigyan
Växtskyddsnotiser
Växtskyddsrapporter, Jordbruck
Vedecké Práce Výskumného Ústavu Rastlinnej Výroby v Piešťanoch, Obilniny, Strukoviny, Krmoviny
Vegetable Science
Verband Deutscher Landwirtschaftlicher Untersuchungs- und Forschungsanstalten Reihe Kongressberichte
Verslag - Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond
Verslagen en Mededelingen van de Plantenziektenkundige Dienst, Wageningen
Vestnik Akademie Zemedelskych ved CSFR
Vestnik Sel'skokhozyaĭstvennoĭ Nauki (Moskva)
Vestsī Akadėmīī Navuk BSSR, Seryya Sel'skagaspadarchyk Navuk
Vestsī Akadėmīī Navuk BSSR. Seryya Bīyalagīchnykh Navuk
Vignevini
Virology (New York)
Virus Research
Vita in Campagna
Vitis
Water Supply
Weed Science
Weed Technology
What's New in Forest Research
Wheat Information Service
Wildlife Research
Wissenschaftliche Zeitschrift der Technischen Universität Dresden
Wood and Fiber Science
World Bank Technical Paper
World Journal of Microbiology & Biotechnology
Yearbook - South African Avocado Growers' Association
Zashchita Rasteniĭ (Moskva)
Zaštita Bilja
Zbornik Radova Poljoprivrednog Fakulteta, Univerzitet u Beogradu
Zeitschrift für Kulturtechnik und Landentwicklung
Zeitschrift für Mykologie
Zeitschrift für Naturforschung. Section C, Biosciences
Zeitschrift fur Naturforschung. Section C, Biosciences
Zeitschrift für Pflanzenernährung und Bodenkunde
Zemledelie
Zentralblatt für Mikrobiologie
Zhurnal Obshcheĭ Biologii